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SUMMER 1953

Gro. G. Ball

INC.

WEST CHICAGO

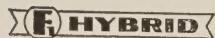
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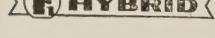
By This Symbol "F HYBRID"



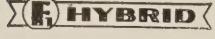
. . . we mean to identify the "genuine F₁ Hybrids," of which we offer sixty in this catalog. Genuine F₁ Hybrids are seeds which have been produced by systematic crossing of individual blooms of two selected inbred parents. The parents are especially bred for superior qualities which they impart to the cross.



Genuine F₁ Hybrids are generally superior to other regular "hybrid" or inbred varieties in the same way that Hybrid Corn is superior to inbred Corn—**greater vigor, greater uniformity, and greater production.**



The term "hybrid" has often been loosely used to describe varieties of recent hybrid origin, such as Delphiniums, Pyrethrum Robinson's Hybrids, Zinnia Burpee Hybrids, etc. Such varieties do not bear the above symbol in this catalog as they **do not** represent the first generation from systematic crossing of two selected true inbred parents. Seed saved from genuine F₁ Hybrids will produce a mixture of various sorts, depending on the characteristics of the parents. In most cases it is worthless to commercial florists. Buy genuine **F₁ HYBRID** for the best!



istics of the parents. In most cases it is worthless to commercial nurists. Buy genuine **F HYBRID** for the best!

George K. Ball
President

President

CATALOG No. 67—SUMMER 1953—BUSINESS TERMS

DISCOUNTS ON SEED ORDERS (Except Lawn Grass). Cash or C.O.D. Discount! When cash is enclosed, or on C.O.D.'s; under \$5.00 net; \$5.00 to \$25.00, 5%; \$25.00 and over, 8%. **Bulbs**, 2%.

On Charge Seed Orders! If paid within 10 days from date of invoice: under \$5.00, net; \$5.00 to \$50.00, 2%; \$50.00 to \$100.00, 5%; \$100.00 and over, 8%. **Bulbs.** 2% 10 days.

NO CASH DISCOUNT on Lawn Grass, Plants, Plant Band Material, and other Supplies. These items **cannot** be sent C.O.D. If this is your first order, it should be signed with some **individual's name** in writing. Payment should accompany all orders unless credit has been established. C.O.D. shipments 50% in advance.

All Prices in this catalog subject to change without notice.

All Seed Orders sent prepaid in U. S. and Canada at catalog prices.

IMPORTANT. Make check or money orders payable to **Geo. J. Ball, Inc., WEST Chicago, Illinois.** Not responsible for currency sent in the mail.

Business Hours (holidays excepted) are 8 to 12 and 1 to 5 Monday through Friday; 9 to 12 Saturday. Our phone number is West Chicago 299.

**OUR BUSINESS IS WITH FLORISTS ONLY. WE DO NOT
SELL AT RETAIL.**

Shortages. All items are offered subject to crop failures or shortages.

LIMITATION OF WARRANTY. Geo. J. Ball, Inc., warrants to the extent of the purchase price that seeds, plants, or bulbs sold are as described on the container within recognized tolerances. Seller gives no other or further warranty, express or implied.

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New Ball Hybrid Snaps for '53

Here Are Our Plant Breeder's Notes On the Two Outstanding New Ball Hybrid Snaps for '53

Variety	Pike's Peak (B.H. #10)	Lot No.	78	Source		Sown	8/2/52
Flowering Date	1/10/53	No. Plants	48	Height	53 in.	Spread	
Remarks	White with slight ivory cast. Long, heavy spikes. Extra long, clean, sturdy stems. Production O.K. Midseason. Top quality in all ways.						*Grade A-B
Rogues:							C Passable; needs improvement as indicated. D Unsaleable as indicated.
*Grade:	A Superior. B Needs no basic improvement; dependable stock.						
Variety	Holiday (B.H. #32)	Lot No.	148	Source		Sown	8/2/52
Flowering Date	1/21/53	No. Plants	48	Height	40 in.	Spread	
Remarks	Medium pink - near Dorcas Jane color. Long spikes; good floret placement. Long, clean, firm stems. Production O.K. Very good, midseason pink.						*Grade A-B
Rogues:							C Passable; needs improvement as indicated. D Unsaleable as indicated.
*Grade:	A Superior. B Needs no basic improvement; dependable stock.						

Two More New Ball Hybrids

• **Showgirl.**  HYBRID (Ball Hyb. No. 42. New.) Medium dark rose. Fairly long spikes, with good floret placement. Long, clean, sturdy stems. A good producer. Midseason.

• **Moonbeam.**  HYBRID (Ball Hyb. No. 11. New.) Ivory. Medium length, well spaced spike. Long, clean, medium firm stems. O.K. producer. Midseason.

Above 4 New Ball Hybrids, each: $\frac{1}{2}$ tr. pkt., \$2.00; tr. pkt., \$3.50.

OTHER NEW HYBRIDS

• **New Times.**  HYBRID (New—Pan American). E. The best early, bright deep rose thus far. Medium long spikes with clean, firm stems. A good producer. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00.

Spartan Rose.  HYBRID (New—Mich. State College). M. Medium deep rose with long, heavy spikes. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00.

Chevy Chase Pink.  HYBRID (New—Winkler). E. Shatter-proof pink; a shade darker than Maryland Pink. Close, full spike. $\frac{1}{2}$ tr. pkt., \$2.00; tr. pkt., \$3.50.

Spartan White.  HYBRID (New—Mich. State College). E. Clean growing, pure white. A good producer. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00.

Pompey.  HYBRID (New—Yoder Bros.). Rose-pink; a shade deeper than Dorcas Jane and a bit earlier. Tr. pkt., \$3.00.

Citation.  HYBRID (New—Yoder Bros.). Ivory with large, ruffled florets. Earlier than Margaret. Tr. pkt., \$3.00.

Gusto.  HYBRID (New—Yoder Bros.) A somewhat deeper pink than Mary Ellen; also earlier. Tr. pkt., \$3.00.

Seabiscuit.  HYBRID (New—Yoder Bros.) A midseason yellow with long spikes and good floret form. Tr. pkt., \$3.00.

Top Flight.  HYBRID (New—Yoder Bros.). Light pink. Similar to Christina but earlier. Tr. pkt., \$3.00.

Sun Briar.  HYBRID (New—Yoder Bros.). Lively orange-bronze. Extra long spikes and hard stems. Tr. pkt., \$3.00.

Pink Star.  HYBRID (New—Yoder Bros.). Early dark pink shaded salmon. Large florets. Tr. pkt., \$3.00.

Bold Venture.  HYBRID (New—Yoder Bros.). Bright fuchsia-lavender. Hard stemmed and early. Tr. pkt., \$3.00.



HERCULES



PINK ICE



SNOWMAN



NAVAJO



LAVENDER LADY

Ball Hybrid Snapdragons

(ANTIRRHINUM—125,000 seeds per oz.)

YELLOW

- **Golden Spike.** (Ball Hyb. No. 1). A rich, deep golden yellow with long, tapering spikes and heavy stems. Best yellow for late winter and spring, but do not flower before February in the North.

PINK and ROSE

- **Hercules.** (Ball Hyb. No. 21). Pictured above. Light pink, extra hard stem. Spike formation like that of Peggy Schumann. Close-set florets, graceful spike, and very clean grower. Midseason.
- **Holiday.** (Ball Hyb. No. 32—new, see page 1). Midseason pink. Near Dorcas Jane color.
- **Pink Cloud.** (Ball Hyb. No. 3). Medium pink; recommended for spring.
- **Pink Monarch.** (Ball Hyb. No. 4). Rose-pink with large, attractive florets and an exceptionally hard, clean stem. For late winter and spring.
- **Pink Ice.** (Ball Hyb. No. 31). Pictured above. A bright medium rose with nearly white lips. A clean, strong grower. Do not flower before February in the North.
- **Ball Pink Hyb. No 2.** Medium pink. Extra early and very productive.
- **Showgirl.** (Ball Hyb. No. 42—new, see page 1). Medium dark rose. Productive. Midseason.
- **Rosanna.** (Ball Hyb. No. 9) A bright, deep rose with long, tapering spikes.
- **Rosy Dawn.** (Ball Hyb. No. 41). Deep rose. Do not flower before February in the North.

BALL HYBRID SNAP COLLECTION

2 tr. pkts. each **Golden Spike**, **Snowman**, and **Hercules**.
 1 tr. pkt. each **Pink Ice**, **Navajo**, **Rosanna**, and **Lavender Lady**.
 Collection of 10 tr. pkts., \$32.00

WHITE

- **Pike's Peak.** (Ball Hyb. No. 10—new, see page 1). Midseason white with slight ivory cast. Top quality.
- **Moonbeam.** (Ball Hyb. No. 11—new, see page 1). Ivory. Medium length, well spaced spike. Midseason.
- **Snowman.** (Ball Hyb. No. 5). Pictured above. This pure white is a top-notch Snap in all ways. We consider it the best white for single stemmed culture, and it is also excellent for a pinched crop. Absolutely white—no trace of ivory.

BRONZE and RED

- **Indian Chief.** (Ball Hyb. No. 6). Bright, rich bronze. Deeper, brighter shade than Barbara. For late winter and spring.
- **Navajo.** (Ball Hyb. No. 8). Pictured above. We consider this the finest all-purpose red Snap available. It combines an excellent bright, true Snapdragon red with an extra long spike and hard stem.

Ball Red Hyb. No. 7. Early and productive, but we prefer Navajo for spike length.

LAVENDER

- **Lavender Lady.** (Ball Hyb. No. 71). Pictured above. A deep, rosy lavender shade with excellent spikes and stems. Our finest lavender Snap. For late winter and spring.

MIXED

- **Hybrid Formula Mixed.** Mixture of Hybrid Snaps. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00.

PRICES all above Ball Hybrids except Mixture:
 $\frac{1}{2}$ tr. pkt., \$2.00; tr. pkt., \$3.50.

Forcing Snapdragons

COMPLETE LIST OF VARIETIES

Ball "15 Best" Are Indicated by a Dot (●)

ABOUT FLOWERING DATES. In describing the many Snap varieties which we list, we have designated each as early (E), midseason (M) or late (L). This is an arbitrary classification based on our own West Chicago greenhouse trials over a period of years.

From a sowing made August 1, grown on a raised bench as a pinched crop and run 50° nights, those varieties which normally flower by December 15 we classify as early. Those which flower

between December 15 and January 10 we call midseason; while the remainder that flower after January 10 we consider late. Locality and amount of sunshine, of course, have a bearing on flowering dates, too.

It should be borne in mind that while many of the early and midseason varieties are excellent for late flowering if sown later, late varieties cannot be flowered early unless sown in May or June in our locality.

WHITE

Tr. Pkt.

Pike's Peak. HYBRID (Ball Hyb. No. 10. New). M. White with slight ivory cast. See page 1. ½ tr. pkt., \$2.00	\$3.50
Moonbeam. HYBRID (Ball Hyb. No. 11. New). M. Ivory. See page 1. ½ tr. pkt., \$2.00	3.50
● Snowman. HYBRID (Ball Hyb. No. 5). This pure white is a top-notch Snap in all ways. We consider it the best white for single stemmed culture, and it is also excellent for a pinched crop. Good producer, hard, clean stem, graceful spike. See page 2. ½ tr. pkt., \$2.00	3.50
Apollo. HYBRID (Yoder Bros.). Ivory; yellow lip. Larger flowered and more vigorous than Margaret	3.00
Citation. HYBRID (New—Yoder Bros.). Ivory. See page 1	3.00
Jet Pilot. HYBRID (Yoder Bros.). M. Pure white	3.00
Junglewood White. L. Extra long stemmed, pure white. Rather late flowering with us. ½ tr. pkt., \$1.25	2.00
Lucky Strike Imp. M. Long stemmed ivory-white	1.50
● Margaret. M. Clean ivory-white; very productive	2.00
Maryland White. HYBRID (Winkler). M. Pure white. ½ tr. pkt., \$2.00	3.50
Peace. E. Pure white	1.50
Rockwood's Crystal White. L. Pure white. Recommended for late spring and early summer only. ½ tr. pkt., \$1.75	3.00
Rockwood's Hybrid White (No. 5). HYBRID M. Ivory ½ tr. pkt., \$1.75	3.00
Schlegel's White. E. Vigorous white	1.50
Snowdrift. L. Double flowering white. ½ tr. pkt., \$1.75	3.00
Spartan White. HYBRID (New—Mich. State College). E. Clean growing, pure white. ½ tr. pkt., \$1.75	3.00
Tommy Armstrong. L. Pure white. Stems are clean and hard with closely spaced florets	2.00
Twenty Grand. HYBRID (Yoder Bros.). M. Ivory; flower similar to Junglewood White	3.00
White Wonder Imp. M. This is our own strain	1.50

LIGHT PINK

● Hercules. HYBRID (Ball Hyb. No. 21). M. Light pink, extra hard, clean stem. See page 2. ½ tr. pkt., \$2.00	\$3.50
Chevy Chase Pink. HYBRID (New—Winkler). Bright pastel pink. See page 1. ½ tr. pkt., \$2.00	3.50
● Christina. HYBRID (J. S. Yoder). M. Best all-purpose light pink on our list. ½ tr. pkt., \$2.00	3.50
Kathleen. HYBRID (Hoffman). ½ tr. pkt., \$1.75	3.00
Marie Louise. M. A beautiful light shell-pink	2.00
Mary Ellen. HYBRID (J. S. Yoder). M. Light pink. ½ tr. pkt., \$1.50	2.50
Maryland Pink Imp. HYBRID (Winkler). E. Creamy light pink. Early and productive. ½ tr. pkt., \$2.00	3.50
St. Louis Pink. L. Excellent light pink for spring	1.50
Top Flight. HYBRID (New—Yoder Bros.) Light pink. See page 1	3.00
Whirlaway. HYBRID (Yoder Bros.). M. Pink with large yellow lip	3.00

MEDIUM PINK

Tr. Pkt.

Holiday. HYBRID (Ball Hyb. No. 32. New). M. Medium pink. See page 1. ½ tr. pkt., \$2.00	\$3.50
Pink Cloud. HYBRID (Ball Hyb. No. 3). M. Medium pink. Recommended for spring. ½ tr. pkt., \$2.00	3.50
Pink Monarch. HYBRID (Ball Hyb. No. 4). L. Rose-pink. For late winter and spring. ½ tr. pkt., \$2.00	3.50
● Pink Ice. HYBRID (Ball Hyb. No. 31). E. Bright pink with nearly white lips. See page 2. ½ tr. pkt., \$2.00	3.50
Ball Pink Hyb. No. 2. HYBRID Medium pink. Extra early and very productive. ½ tr. pkt., \$2.00	3.50
Chevoit Maid No. 33. M. Between rose and pink in color	1.50
Crusader. HYBRID (Yoder Bros.). M. Light "Dorcas Jane" pink shade. An excellent midwinter Snap	3.00
● Dorcas Jane. HYBRID (Burkely). M. Long spikes of silvery pink. ½ tr. pkt., \$1.50	2.50
Gusto. HYBRID (New—Yoder Bros.). Rose-pink. See page 1.	3.00
New Cincinnati. M. Medium rose-pink with shatter-proof spikes and extra long, stiff stems	1.50
Pink Star. HYBRID (New—Yoder Bros.) Dark pink. See page 1	3.00
Pompey. HYBRID (New—Yoder Bros.). Deep rose-pink. See page 1	3.00

ROSE

Showgirl. HYBRID (Ball Hyb. No. 42. New). M. Medium dark rose. Productive. See page 1. ½ tr. pkt., \$2.00	3.50
● Rosanna. HYBRID (Ball Hyb. No. 9). A bright, deep rose with long, tapering spikes. Long stemmed and very productive. Fine for any season. ½ tr. pkt., \$2.00	3.50
Rosy Dawn. HYBRID (Ball Hyb. No. 41). Deep rose. Do not flower before Feb. in north. ½ tr. pkt., \$2.00	3.50
Better Times. HYBRID (Windmiller). M. Bright cerise-rose. ½ tr. pkt., \$1.25	2.00
● Christmas Cheer. HYBRID (Windmiller. E. Extra early, productive, bright rose. ½ tr. pkt., \$1.75	3.00
Delworth's Supreme. M. Long stemmed, deep rose	1.50
Libby. HYBRID (J. S. Yoder). M. Dark rose. ½ tr. pkt., \$2.00	3.50
Maxine. HYBRID (Smith). E. Winter flowering medium rose. ½ tr. pkt., \$1.75	3.00
New Times. HYBRID (New—Pan American). E. Bright deep rose. Medium long spikes with clean, firm stems. ½ tr. pkt., \$1.75	3.00
● Peggy Schumann. L. Beautiful creamy rose	2.00
Pensive. HYBRID (Yoder Bros.). M. Dark rose	3.00
Rockwood Pink Supreme. L. Fairly deep, bright rose	2.00
Rose Queen. M. Deep rose; an old time favorite	1.50
Star Charter. HYBRID (Yoder Bros.). Rose	3.00
Spartan Rose. HYBRID (New—Mich. State College). M. Medium deep rose with long, heavy spikes. ½ tr. pkt., \$1.75	3.00



SNOWMAN

A crop of our pure white hybrid, Snowman. This is an excellent variety for either single stemmed or pinched culture.

YELLOW

	Tr. Pkt.
● Golden Spike.  HYBRID (Ball Hyb. No. 1). A rich, deep golden yellow with long, tapering spikes and heavy stems. Best yellow for late winter and spring. ½ tr. pkt., \$2.00	\$3.50
Day Star.  HYBRID (Yoder Bros.). E. Light yellow; prefer War Admiral	3.00
Ethel. M. The most satisfactory self-pollinated yellow	1.50
Goldrush.  HYBRID (Winkler). M. Large flowered medium yellow; a good producer; ½ tr. pkt., \$2.00	3.50
Junglewood Yellow. M. Rich yellow. ½ tr. pkt., \$1.25	2.00
Klondyke Supreme. L. Rich deep yellow. A vigorous growing, large flowered variety	1.50
● Patricia.  HYBRID (J. S. Yoder). M. Medium yellow. ½ tr. pkt., \$2.00	3.50
Rockwood's Hybrid Yellow (No. 10).  HYBRID L. ½ tr. pkt., \$1.75	3.00
Seabiscuit.  HYBRID (New—Yoder Bros.). Yellow. See page 1	3.00
War Admiral.  HYBRID (Yoder Bros.). E. Outstanding in vigor and spike formation. Fine yellow for midwinter	3.00
Yellow Peggy Schumann. L.	2.00

LAVENDER

	Tr. Pkt.
● Lavender Lady.  HYBRID (Ball Hyb. No. 71). A deep, rosy lavender shade with excellent spikes and stems. For late winter and spring. See page 2. ½ tr. pkt., \$2.00	3.50
Ball Lavender. L. Long-stemmed and strong growing with good spikes of bright, rosy lavender. Prefer Lavender Lady	1.50
Bold Venture.  HYBRID (New—Yoder Bros.). Lavender. See page 1	3.00
Schumann's Lavender. L. Popular spring variety	2.00
Windmiller's Lilac. M. Long-stemmed rosy lilac	2.00

FORCING SNAPDRAGONS

Complete List, Continued

NEW DOUBLE SNAP

Sunshine Rose-Pink (Yerxa). A new fully double Snap-dragon. Large florets and long spikes. A bright, luminous pink. Bred for high light intensity areas of the West and South. Tr. pkt. (over 500 seeds)	\$5.00
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RED

Tr. Pkt.

● Navajo.  HYBRID (Ball Hyb. No. 8). M. We consider this the finest all-purpose red Snap available. See page 2. ½ tr. pkt., \$2.00	\$3.50
Ball Red Hyb. No. 7.  HYBRID E. Early and productive, but we prefer Navajo for spike length. ½ tr. pkt., \$2.00	3.50
Priscilla Ann.  HYBRID (J. S. Yoder). M. A wine-red, similar to Shisler's Red in color. ½ tr. pkt., \$2.00	3.50
Red Lips. M. Bright wine-red with gold lip and white tube. An attractive bicolor novelty	2.00
Rockwood's Red Hybrid (No. 15).  HYBRID M. ½ tr. pkt., \$1.75	3.00
Shisler's Red. M. Attractive wine-red. True to color and a good, hard stemmed variety for spring	2.00

BRONZE

● Indian Chief (Ball Hyb. No. 6). M. Scarlet-bronze. ½ tr. pkt., \$2.00	3.50
Afterglow. M. Bright-orange-bronze; still widely grown	1.50
● Barbara.  HYBRID (J. S. Yoder). M. Large-flowered bronze with pink throat. ½ tr. pkt., \$2.00	3.50
Cavalcade.  HYBRID (Yoder Bros.) M. A lively golden bronze, extremely vigorous	3.00
Gallant Fox.  HYBRID (Yoder Bros.). M. Medium rosy bronze. Very fine	3.00
Glorious. M. Bright reddish bronze for spring	1.50
Ideal Improved. M. Blend of rose, orange and yellow	1.50
Jubilee.  HYBRID (Winkler). M. light golden bronze. Habit similar to Goldrush. ½ tr. pkt., \$2.00	3.50
Lady Dorothy. E. Bright orange-bronze. ½ tr. pkt., \$1.75	3.00
Rockwood's Smoky Bronze. ½ tr. pkt., \$1.75	3.00
Schlegel's Early Bronze. M. An improved Bronze Christmas Cheer, with better flowers and habit	2.00
Sun Briar.  HYBRID (New—Yoder Bros.). Dark bronze. See page 1	3.00

MIXTURES

Hybrid Formula Mixture. Mixture of Hybrid Snaps. ½ tr. pkt., \$1.75	3.00
Ball Forcing Mixture. Carefully blended by formula	1.00

PLEASE NOTE

½ tr. pkts. available only where listed. If the variety you want is not listed, send us your order and we will get it for you or suggest a satisfactory substitute.

Seven Highlights of

Good Snap Culture



Steaming—to 180°—does a lot of good things to your Snapdragons soil. It cleans up disease organisms, kills soil-borne weed seeds, insects. Besides this, it tends to improve the physical condition.

I. SOILS (Preparation, Management)

Really important point here is **plenty** of organic matter. Our formula:

60% garden or field soil—any type or color, but one that grew **good** field or garden crops.

20% peat.

20% well rotted cattle manure.

Once every year add 1 wheelbarrow full of rotted cattle manure and three pounds of superphosphate 20%, per 100 square feet of bench area just before steaming.

FEEDING: We feed in dilute liquid form to maintain following nutrient levels:

Nitrates 20-40 parts per million Spurway.

Potash 20-40 parts per million.

Phosphate 3-5 parts per million.

We maintain these levels right thru the winter. It just doesn't pay to starve them.

II. SOWING DATES

The dates given here are intended as suggestions only—based on our experience here in the Midwest. Many things can throw them off. Examples:

1. Hot, dry, bright fall—will bring Christmas crops in early.
2. Unusually dark, cloudy fall-winter, delays late winter crops, especially if night temperatures are lowered.
3. The tables are based on raised benches, 50° night temperatures most of the winter, at least. We have seen a Valentine's Day crop flower over a month slower than the following table—grown on deep ground beds, 45° nights all winter, and in dark houses.
4. Your local climate. Where winters are warm and sunny, winter Snaps will bloom about as fast as the May-June crops on these tables—in four months instead of six.
5. Varieties differ in blooming dates.

Pinched Crops

50° most of the winter, raised benches, medium early varieties.

Sow	Flower
July 20	Mid-Dec.
Aug. 1	Early Jan.
Aug. 20	Early Feb.
Sept. 5	Early March
Sept. 25	Early April
Nov. 20	Mid-May

Keep a record of your own Snap sowing and flowering dates—and adjust your schedules for best results.

Single Stem

Raised beds, 50° most of the winter.

Sow

July 20
Aug. 1
Aug. 12
Sept. 1
Sept. 8
Oct. 1
Dec. 1
Feb. 1
April 23
May 23

Flower

Nov. 15. Earlier if fall is hot.
Dec. 15
Jan. 1
Feb. 1
March 1. 1-2 weeks later if very cloudy winter.
April 1
May 1
June 1
Aug. 1
Sept. 1

III. DIRECT BENCHING

. . . of seedlings is **the way** in our experience. Definitely superior growth, much less labor. It will work, even in hot weather, if

- A. Soil is steamed. Plant within 24 hours of steaming.
- B. Mist seedlings within minutes of benching—and regularly till new roots show.
- C. Have soil moist before benching.
- D. Plant shallow.
- E. Be sure soil is porous, open.
- F. Have fertilizer levels neither way high nor too low.

IV. PINCHING

Wait till breaks show in leaf axils—plant usually 6-8 inches high. Then pinch to leave 3 pairs of leaves (plus small seed leaves at bottom). If plant is pinched before side shoots show, it will give 2-3 shoots instead of 4-5.

V. TEMPERATURE

Normal during firing season: nights 50°, cloudy days 57°, sunny days 65°.

If we experience 2-3 weeks of cloudy weather, we drop gradually to 45-52-60° till sunny weather returns. **Failure to drop temperatures in dark weather causes stubby spikes, soft stems, breaking out of bud tip.**

VI. SUMMER-FALL SNAPS

. . . were a dollar-maker again last year. Direct planted, single stemmed, they flower in less than 3 months from benching, are in good demand. Make several sowings so they will keep coming in.

VII. SINGLE STEM

No-pinch growing seems to be accepted more each year. Reasons:

- A. A quicker crop—gets in up to 2-3 weeks sooner. Bench cuts out faster, more evenly. Total saving over pinched crop, up to 5-6 weeks in winter.
- B. Fewer culms—more uniformity.
- C. **Controlled** flowering date—by making a succession of properly scheduled sowings, you can be in cut when you want them—or steadily from January to June, as we do.

Ball

Begonias

FIBROUS ROOTED

(30,000 seeds per $\frac{1}{32}$ oz.)

If our seed and plant sales are an accurate indicator, Begonias are rapidly increasing in popularity as versatile all-around potted plants. They are equally "at home" in 5-inch pots, as less expensive plants in 3- or 4-inch pots, and in combinations of all sorts. Here is one plant which will do well in the low-light, high temperature conditions of modern homes.

The extreme fineness of Begonia seed and the difficulties involved in getting the better varieties to seed freely are two reasons for our handling this seed production in our own greenhouse at West Chicago. This seed is bred, grown, selected, harvested and cleaned under the watchful eyes of men who have had years of experience handling fine seed.

Culture. Use neutral (non-acid) peat for germination; no covering over the seed (except paper till they sprout). Keep surface of flat moist. Use half peat, half soil for potting. They must have 60° to keep them moving—and shade in summer. To have 3-inch in flower for Christmas, sow August 1; for spring holidays, figure about 16 weeks for 3-inch blooming plants; 20 weeks for 4-inch.

EXTRA DWARF

- **Ball Dwarf Carmen.** Extra compact habit with rich bronze leaves and light pink flowers. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.50.
- **Saga.** Extra dwarf and dense growth. Small, bright red flowers. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$4.00; $\frac{1}{32}$ oz., \$7.50.

DWARF CLASS

- **Adeline.** Extra free flowering bright pink; dwarf and compact. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.25; $\frac{1}{32}$ oz., \$6.00.
- **Ball Deep Rose.** In winter the color is a deep rosy red which gradually fades to a luminous pink with the coming of warmer weather. Seed available late August. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.25; $\frac{1}{32}$ oz., \$6.00.
- **Ball Red.** Medium large flowers of bright true scarlet are freely produced on fairly dwarf, uniform plants. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.25; $\frac{1}{32}$ oz., \$6.00.
- **Ball White.** Rather small flowers but very freely produced. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.00; $\frac{1}{32}$ oz., \$5.50.
- **Luminosa Compacta.** Dwarf, free flowering scarlet-red. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.00; $\frac{1}{32}$ oz., \$5.50.
- **Snowbank.** Large, glistening white flowers are carried on dense growing, even plants. The best white. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.
- **Dwarf Varieties Mixed.** Our own formula mixture of dwarf varieties. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

INTERMEDIATE CLASS

- **Sparkler.** The outstanding feature of this new Begonia is its unusual color—large flowers of brilliant orange-salmon with each petal base a contrasting creamy white. Sparkler was developed in our own greenhouses and is the only true salmon Begonia we have ever seen. Tr. pkt., \$2.50.
 - **Carmen.** The original bronze-leaved Begonia; bright rose-pink flowers. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.
 - **Fire Sea (Blaze of Fire).** Large, fiery red with green foliage. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.



Fibrous-Rooted Begonias, by the nature of their growth, divide themselves readily into the three types pictured here; dwarf, intermediate and tall.

● **Indian Maid.** Foliage a deep lustrous bronze with scarlet flowers. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

King of the Reds. Free flowering carmine-red; vigorous growth. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.75.

● **Luminosa.** Very attractive and popular scarlet-red. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$3.00; $\frac{1}{32}$ oz., \$5.50.

Prima Donna. Medium rose-pink. Prefer Scandinavia Pink. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

Salmon Queen. Salmon shaded rose with dark foliage. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

● **Scandinavia Pink.** Very free flowering bright rose-pink. Fine bushy habit. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

● **Scandinavia Red.** Identical to the above except for its bright red flowers. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Scandinavia White. A white Scandinavia selection. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

White Pearl. Medium sized white flowers with green leaves, tinged pink; reddish stems. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50.

Intermediate Varieties Mixed. Made up of the above separate colors. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$3.75.

TALL CLASS

Christmas Cheer. Large flowered, deep rose. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

Masterpiece. Extra large flowered, light pink. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

Pink Radio. Extra large flowered, rich rose. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

Silver Wings. Extra large, pure white flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

Tall Varieties Mixed. A formula mixture of the above strong growing sorts. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50.

F₁ HYBRID (HETEROSESIS) STRAINS

Seed of these varieties is produced by the same method as Hybrid Snaps and Petunias. For absolute uniformity they're unexcelled. Why not grow some this year?

● **Gruga.** ~~HYBRID~~ Dwarf; large flowers of Adeline-pink. Habit similar to Ball Red. Tr. pkts. only, \$1.50.

Tausendschon. ~~HYBRID~~ Dwarf. Bright pink; closely resembles Adeline and Pink Pearl in habit. Originator's seed. Tr. pkt., \$1.25.

● **Pink Pearl.** ~~HYBRID~~ Resembles Adeline in flower size, rich pink color and uniformly dwarf, compact growth. Originator's tr. pkts. only, \$1.50.

● **Red Pearl.** ~~HYBRID~~ Dwarf. Identical to Pink Pearl except for its Luminosa-red color. Originator's imported Hybrid seed. Tr. pkts. only, \$1.50.

Ball Begonias

OTHER BEGONIAS

TUBEROUS ROOTED SEPARATE COLORS

We offer seeds of the following separate colors of the fully double Camellia type Tuberous Rooted Begonias.

Red Scarlet	Orange Rose	Salmon Copper	Yellow White
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Prices above 8 separate colors, each: $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00.

● **Tuberous Rooted Double Mixed.** Camellia flowered. Our flowering trials have consistently produced compact plants. Gorgeous colors; 90% good doubles. Tr. pkt., \$3.00.

● **Lloydii Mixed.** Pendulous. Double flowers, about 2 inches, in shades of scarlet, rose, salmon and white. Fine for hanging baskets. Tr. pkt., \$3.00.

Rex Hybrids. Mixture of ornamental leaved Rex Begonias; many unusual variations. Tr. pkts. only, \$1.25.

Dot's Calla Queen. A novelty Fibrous Rooted Begonia with attractively variegated green and white foliage which contrasts vividly with its red and pink flowers. Needs pinching. Originator's tr. pkt., \$3.00; $\frac{1}{2}$ tr. pkt., \$1.75.



TUBEROUS ROOTED BEGONIAS

Calendulas

GREENHOUSE VARIETIES

(3,000 seeds per oz.)

Breeding and selection work on Ball Calendulas was one of the accomplishments of the late Geo. J. Ball's early years in business. We are glad to report that the listed strains are in excellent shape today, having been the subject of considerable breeding work in the past several years.

Start in July or August and grow cool—not over 45° nights during fall and winter. They will not thrive in Carnation-house temperature. They need regular disbudding and prefer ground beds; otherwise they are very easy and inexpensive to handle.

● **Ball Improved Long Orange.** The longest stemmed and largest flowered variety. Golden orange.

● **Ball Masterpiece.** Deep glowing orange with dark eye.

● **Ball Lemon Queen.** Lemon-yellow with dark brown eye.

● **Ball Gold.** Deep golden yellow with light eye.

Ball Orange. Extra deep, intense orange. Light-eyed.

Campfire. Popular deep orange.

Prices above 6, each: tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$9.00.

Ball Formula Mixture. Carefully made up of our named varieties with fully half orange.

Ball Art Shades Mixture. Contains many original and unusual shades and interesting bi-colors.

Prices above 2, each: tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.40; 4 ozs., \$7.20.



CALENDULA
BALL GOLD

Calceolarias

(20,000 seeds per $\frac{1}{32}$ oz.)

Calceolarias aren't at all difficult to grow from seed if a few simple requirements are met. In sowing use only loose, sterilized material—night temperature 60°. The seed is very fine and no soil covering should be used. When large enough to handle, they should go into 2½-inch bands—later into 4- or 5-inch pots for finishing. After banding a 48° house will suit them nicely. A regular insect control program is essential (aphis will wreck them in no time). We spray once a week with Parathion. From late February on they'll need protection from direct sun. Water only when dry; "wet feet" will cause yellowing of foliage.

● **Extra Early Tigered.** (New). Solid heads of medium large flowers on dwarf plants; good color range. The outstanding feature of this strain is its earliness. It blooms a full month before other varieties, therefore costs you less to grow. Tr. pkt., \$1.25; $\frac{1}{128}$ oz., \$2.75; $\frac{1}{64}$ oz., \$5.00; $\frac{1}{32}$ oz., \$9.00.

● **Ball Multiflora Nana Mixture.** Large heads of medium sized flowers in brilliant reds, yellows and intermediate shades. The dwarf plants are wiry in growth with small durable leaves. Tr. pkt., \$1.25; $\frac{1}{128}$ oz., \$2.75; $\frac{1}{64}$ oz., \$5.00; $\frac{1}{32}$ oz., \$9.00.

Cloth of Gold. Medium large, golden yellow flowers. Very showy. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

● **Duplex Hybrids Mixed.** Upper pouch of each flower is almost as large as the lower, giving an attractive duplexed effect. Plants are bushy and fairly dwarf; nice color mixture. Tr. pkt., \$1.25; $\frac{1}{128}$ oz., \$2.00; $\frac{1}{64}$ oz., \$3.50.

● **Dwarf Tigered or Spotted.** Various spotted shades of red, yellow and rosy bronze. Dwarf and compact; needs no staking. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

● **Grandiflora Dwarf Mixed.** Extra large flowers in unusual and striking colors are carried on dwarf plants. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Indian Prince. An orange-scarlet Multiflora Nana selection. Tr. pkt., \$1.25; $\frac{1}{128}$ oz., \$2.35.

Perennial Hybrids (Rugosa). Large heads of quite small flowers in a brilliant color mixture. Tr. pkt., \$1.25.

● **Triumph Strain.** Medium large flowers; mostly bright reds and yellows. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Ball's Cyclamen

A WORD ABOUT OUR CYCLAMEN

Repeated observations of Cyclamen flowering trials in our own greenhouses, as well as careful examination of the leading strains grown in Europe and America, have led us to believe that no one Cyclamen seed specialist excels in all varieties.

The Ball strains include only those varieties in which each grower (according to our flowering trials) excels.

CULTURE

Sowing: To have mostly 4's and 5's in flower by Christmas, 1954, a few later, sow 40% October 1, 40% November 1, 20% January 1.

A late July sowing will make heavy 6's for Christmas, 1954. Sow February 1 for nicely flowered 4's for the next Saint Valentine's Day. 65° best for germination; they sprout well in peat.

Growing: Best soil clear thru: 2 parts soil, 2 parts peat, 2 parts manure plus phosphate, plus regular feeding with balanced fertilizer. Transplant seedlings to flats, then to 3 inch, then to 5 or 6 inch. Many go directly from transplant to 4 inch. Growing temperature 55°. Shade, humidity in summer. Their worst enemy,

DISCOUNTS—In addition to our regular cash discounts, the following special discounts are allowed on Cyclamen seed: 250 of a variety at 1000 rate (except Vogt's); 10,000 to 25,000 seeds, any assortment of varieties, less 5%; over 25,000, less 10%.

	100 Seeds	1000 Seeds
No. 1 Dark Blood-Red	\$1.90	\$17.50
No. 2 Bright Red	1.90	17.50
No. 3 Pure Rose (Rose of Aalsmeer)	1.90	17.50
No. 4 Soft Rose with carmine eye. (Improved Rose of Marienthal)	1.90	17.50
No. 5 White with carmine eye.....	1.90	17.50
No. 6 Pure White	1.90	17.50
No. 7 Bonfire. Brilliant salmon	2.50	22.00
No. 8 Salmon-Scarlet (America Imp.)	2.50	22.00
No. 9 New Salmon-Rose Imp.	2.50	22.00
No. 10 Glory of Wandsbek (Perle of Zehlendorf). Dark salmon	2.40	20.00
No. 11 Rose of Zehlendorf. Light salmon ..	2.40	20.00
No. 12 Orange Beauty. Orange-vermillion ..	2.50	22.00
No. 13 Rococo Mixed. Fringed flowers; unusual shapes and markings	2.50	22.00
No. 16 Saffron Red, Silver Edged	2.50	22.00
No. 17 Striped Varieties Mixed	2.40	20.00
No. 18 Mozart. Deep pink	2.50	22.00

	100 Seeds	1000 Seeds
No. 19 Lavender	\$1.90	\$17.50
No. 21 Pink Pearl. Salmon-pink	2.50	22.00
No. 22 Baardse Wonder. Salmon with white border	2.50	22.00
No. 24 Roseum Oculatum. Light pink, salmon eye	2.40	20.00
No. 26 Victoria. Fringed white, tipped red...	2.50	22.00
No. 30 Mixture of above colors.....	1.80	16.50
No. 50 Ruffled Lavender	2.50	23.00
No. 51 Ruffled Salmon	2.50	23.00
No. 52 Ruffled White	2.50	23.00
No. 53 Ruffled Dark Red	2.50	23.00
No. 60 Ruffled Mixture	2.50	23.00

VOGT'S DOUBLE-FLOWERED STRAIN

Admiration. Salmon-rose with shaded eye.
Mixture.

Prices above 2, each: 100 seeds, \$3.75; 250 seeds, \$7.75;
500 seeds, \$14.50; 1000 seeds, \$27.50.

VIBRA - SEEDER

So simple, yet so practical! Even the finest of seeds can be spaced with complete accuracy. After a little experience or practice, it is very possible to greatly reduce the quantity needed by eliminating loss thru "bunching." NO necessity of changing parts to adapt the seeder to a special type or size of seed—equally good on all sizes and shapes. We use this seeder extensively in our own seed sowing operations. Price each, \$1.95.



Cinerarias

Colorful Cinerarias offer a welcome spring change in your customer's diet of the usual winter pot plants, and if the smaller leaved varieties like Cremer's and Festival are used they'll take less bench space, cost less to grow. Finish some in 4's as well as 5's for those of your customers who want less expensive plants.

Seed is usually sown from late July through September for winter and spring pot plants. Transplant the seedlings to 2½-inch plant bands as soon as they can be handled. Before they become root-bound, shift into their final sized pot. While this method calls for a little care in preventing over-watering until they make new roots, we find it produces better results than handling them in small pots.

● **Festival.** This new Cineraria is the result of years of intensive breeding in our own greenhouses to develop a **small-leaved strain** requiring a minimum of bench space.

Plants are bushy and compact with even heads of medium sized, mostly white-eyed flowers in a brilliant color range. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00; $\frac{1}{64}$ oz., \$4.50; $\frac{1}{32}$ oz., \$7.50; $\frac{1}{16}$ oz., \$13.00.



● **Siter's Rainbow Strain.** 3500 seeds per $\frac{1}{32}$ oz. Excellent market strain with immense heads of medium large, mostly white-eyed flowers. Tr. pkt., \$2.00; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00; $\frac{1}{16}$ oz., \$9.00.

● **Cremer's Prize Strain.** (Our own reselected stock.) 6300 seeds per $\frac{1}{32}$ oz. Extra large heads of medium small flowers in widely varied color assortment; about half light eyed. Small foliage. Tr. pkt., \$1.75; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50; $\frac{1}{16}$ oz., \$8.25.

● **No. 1 Mixture.** Consists of Cremer's Prize Strain and Siter's Rainbow Strain in equal proportions. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.75.

● **No. 2 Mixture.** Contains $\frac{1}{2}$ Cremer's Prize Strain and $\frac{1}{4}$ each Siter's Rainbow Strain and Multiflora Nana, Gold Center Strain. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.75.

● **"Vivid" Formula Mixture.** A mixture of solid colors (without "eyes") which we blend ourselves. Colors range from salmon and azure-blue to blood-red and dark blue. Habit is dwarf with well rounded heads and fairly small leaves. Blooms about a month later than other strains. Tr. pkt. (1000 seeds), \$1.75; $\frac{1}{64}$ oz., \$2.75. Also available in the following separate colors at the same price: White, Bright Red, Dark Red, Brick-Red (Matador), Light Blue, Mid-Blue, Dark Blue, Pink Shades and Salmon.

● **Dwarf Erfurt Mixture.** Dense heads of medium sized flowers in a fine color balance, including copper, salmon, and maroon in addition to the usual Cineraria colors. Habit is compact and very uniform. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50.

● **Multiflora Nana, Gold Center.** 6300 seeds per $\frac{1}{32}$ oz. Attractive medium small, solid-colored flowers with yellow anthers. Good shipper. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

● **Berlin Market Mixed** (White-Eyed or Weissensee Strain). 3500 seeds per $\frac{1}{32}$ oz. Large rounded heads of medium large flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

● **Grandiflora Dwarf Mixed.** 3500 seeds per $\frac{1}{32}$ oz. Large flowers in a wide assortment of rich colors with contrasting large white eyes. Extra dwarf and compact growth. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

Dwarf Giant Exhibition Mixture. Extra large (4 to 5 in.) flowers in a wide color range on fairly dwarf plants. For exhibition work only. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.75.

Stellata Mixture (Star type). Small, free flowering strain. 24 to 30 in. tall. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.50.

Florist Formula Lawn Grass Mixtures

We believe florists are the most critical seed buyers in the world. Whether you sell or grow, we know you want the very finest Lawn Grass Seed. That's why we are offering these special mixtures

blended by ourselves for the florist trade only. We use only heavy weight seed of grasses that produce a deep rooted, permanent turf of lasting beauty. Figure 1 lb. of seed to sow 200 sq. ft.

NEW MERION MIX. This mixture contains 24% or more of the new, sensational Merion Blue Grass, which produces thicker, more luxuriant turf. As this slower-growing, spreading grass takes over, it can be mowed down to $\frac{3}{4}$ inch. **POSTPAID.** 1 lb., \$3.00; 10 lbs. or more @ \$2.70 per lb.

SUNNY LOCATIONS

Pre-packaged in individual resale containers. **POSTPAID.** 3 lbs., \$3.60; 5 lbs., \$5.75; 10 lbs., \$11.25; 25 lbs., \$27.50. State type, **Sunny** or **Shady**.

Bulk Prices. F. O. B. WEST CHICAGO. In quantities of 30 to 300 lbs., 89c per lb. Over 300 lbs., write us. State type, **Sunny** or **Shady**.

LAWN GRASS PRICES NET

Why not take advantage of our liberal cash discount? See inside front cover.

VILLAGE GREEN. An economy mixture that fills the need for a good quality, inexpensively priced lawn grass seed.

Pre-packaged in individual resale containers. **POSTPAID.** 3 lbs., \$2.55; 5 lbs., \$4.00; 10 lbs., \$7.75; 25 lbs., \$19.00.

Bulk Prices. F. O. B. WEST CHICAGO. 30 to 300 lbs., 54c per lb. Over 300 lbs., write us.



WHITE SUPREME

Larkspur make excellent subjects for either greenhouse or outdoor growing.

SUPER MAJESTICS

Extra vigorous growth with long stems and long spikes of fully double flowers.

- **Deep Carmine.** Rose, flecked white.
- **Deep Salmon-Pink.** Medium deep rose.
- **Lavender.** See 7 Best, above.
- **Light Blue.** See 7 Best, above.
- **Rose-Pink.** Excellent, medium pink.
- **Rosy Mauve.** Rich lilac shade.
- **White.** Long stemmed pure white.
- **Mixture** of above and other colors.

Prices above 8, each: tr. pkt., 30c; $\frac{1}{2}$ oz., 90c; 1 oz., \$1.60; 4 ozs., \$5.25; 1 lb., \$16.00.

SUPREMES

A vigorous growing, base branching class with large spikes of fully double flowers. Compares favorably with the Super Majestics in stem length and spike quality.

- **Dark Blue Supreme.** See 7 Best, above.
- **Lilac Supreme.** Good rosy lavender.
- **Rose Supreme.** Clear deep rose.
- **Salmon Supreme.** See 7 Best, above.
- **White Supreme.** See 7 Best, above.
- **Supreme Mixture.** All Supreme colors.

Prices above 6, each: tr. pkt., 40c; $\frac{1}{2}$ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

Annual Larkspur

(8,000 seeds per oz.)

Larkspur is an excellent, low-cost and high-profit cut flower item when handled correctly. Here is a chance to substantially boost your profits. Simply take advantage of an otherwise vacant bench or invest a small amount of labor and seed in an outdoor fall or spring sowing.

For Early Summer Cut Flowers Outdoors: If a sowing is made outdoors by growers in the near South 6 or 7 weeks before the ground freezes, plants well enough established to winter over in all except the most severe seasons can be produced. In the North sowing should be done as early in the spring as the soil can be worked—just as soon as the frost is out of the ground.

Under Glass—Spring Flowering: For indoor growing, Larkspur is a nice crop to follow either early or late Mums. Well started, 3-inch, banded or potted plants should be ready, and are produced by a September or later sowing.

Space at least 12 x 12 in. on ground beds; 10 x 10 in. on raised beds should be ample. The after-Mum planting is generally started out cool, 40 to 45° nights, increasing to 50° with spring weather.

Germination: Larkspur seed doesn't germinate well in high temperatures. If it must be sown when hot, better do so in flats set under a bench or in a cool shed. It requires 2 to 3 weeks to come through, sometimes longer.

New Crop Seed is always most reliable for sowing under adverse conditions of summer heat. We have a special source for Larkspur seed (7 best varieties only) permitting delivery in early July. If you order in early summer, please specify whether you prefer to wait for new crop. After August all orders are filled with new crop seed.

"7 BEST"

This list is based on our greenhouse flowering trials. Generally strains which are found best under glass seem also best adapted to outdoor culture.

- **Salmon Supreme.** Medium deep rose; heavy, fully double spikes.
- **Dark Blue Supreme.** Deep violet-blue; improves Blue Spire.
- **White Supreme.** The most vigorous white according to our trials.
- **Regal Salmon-Pink.** Best in its color class; large florets.

Prices above 4, each: tr. pkt., 40c; $\frac{1}{2}$ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

COLLECTION: One tr. pkt. each of above 7 varieties for \$2.35.

- **Super Majestic Light Blue.** An excellent light blue; outstanding.
- **Super Majestic Lavender.** Beautiful orchid-lavender; a rich color.
- **Giant Imperial Brilliant Rose.** The standard deep rose; fully double.
- **7 Best Mixture.** Blended by formula from these 7 varieties.

Prices above 4, each: tr. pkt., 30c; $\frac{1}{2}$ oz., 90c; 1 oz., \$1.60; 4 ozs., \$5.25; 1 lb., \$16.00.

GIANT IMPERIALS

(Base Branching)

- **Blue Bell.** Shades of light blue.
- **Blue Spire.** Fine violet-purple.
- **Brilliant Rose.** See 7 Best, above.
- **Exquisite Pink Imp.** Fine medium pink.
- **Gloria Imp.** Medium rose shades.
- **Lilac King.** Rich, deep bluish lavender.
- **Lilac Queen.** Orchid; lighter and rosier than Lilac King.

Los Angeles Imp. Salmon-rose.

- **Rosalind.** Vigorous, medium pink.

- **Rosamond.** Excellent deep rose. This is a Stock-Flowered variety.

Sweet Lavender. A good lavender.

White Cockade. Good pure white.

White King. Standard white.

Formula Mixture of Giant Imperials.

Prices last 14, each: tr. pkt., 30c; $\frac{1}{2}$ oz., 90c; 1 oz., \$1.60; 4 oz., \$5.25; 1 lb., \$16.00.

HYACINTH-FLOWERED

Produces one long non-branching spike.

Dark Blue	Lavender	Pink
Purple	White	Mixed

Prices above 6, each: tr. pkt., 40c; $\frac{1}{2}$ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$5.50; 1 lb., \$18.00.

REGAL TYPE

Regal White. Heavily doubled, pure white flowers on compact spikes.

- **Regal Rose.** Rich, deep rose, with fine, heavy spikes and large, double florets.
- **Regal Salmon-Pink.** See 7 Best, above.

Prices above 3, each: tr. pkt., 40c; $\frac{1}{2}$ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

Primulas

(Primroses)

PRIMULA MALACOIDES

(12,000 seeds per $\frac{1}{32}$ oz.)

Baby Primroses, as they are often called, provide the grower with one of his most valuable sources of colorful material for Valentine's Day and early spring combination boxes. You'll find they move readily as pot plants, too. 3's and 4's are the most profitable sizes, and they can be had from late January on by sowing from August to October.

Malacoides Primulas are of easy culture if they are grown in an airy, cool house (45° night temperature) and not allowed to get dry between waterings. Equally important is the avoidance of fertilized soil in the seed flat or early stages of growth.

No. 32 Glory of Riverside Imp. An excellent variety with freely produced, beautiful salmon-rose flowers.

No. 41 White Giant. This is the finest pure white available. Large flowers and heavy stems.

No. 43 Brilliancy Imp. Large flowers of rich wine-red. This is our own origination and should not be confused with the old, small flowered Brilliancy.

No. 51 Mrs. Eriksson of Riverside. Large flowers of glowing rose on compact plants of medium height.

No. 62 Ball Lavender. Bright orchid-lavender. Many flowers attractively fringed.

No. 50 Mixture. Our own balanced formula mixture.

Prices above 6, each: tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.25.

No. 64 Red Velvet. Newly opened flowers are a bright coral-rose changing to deep, velvety crimson-red as they mature. Tr. pkt., \$1.50; $\frac{1}{32}$ oz., \$2.50.

DOUBLE MALACOIDES

Fairy Jewels. Double pink. Tr. pkt. (1000 seeds), \$1.50; $\frac{1}{128}$ oz., \$2.50.

PRIMULA CHINENSIS

(Chinese Primula)

A popular class with many retail growers. Very colorful and showy. Sow from March on for Christmas and later.

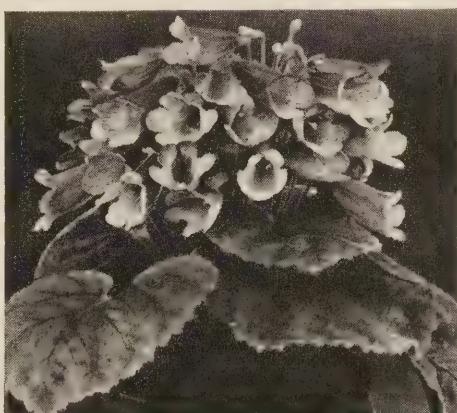
• Kardinal. Vivid, intense orange. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$5.00.

Special Mixture. A choice assortment of colors. Tr. pkt., \$1.25; $\frac{1}{32}$ oz., \$3.75.

NAEGELIA

(Temple Bells)

Art Shades. Dwarf plants with Gloxinia-like leaves and clusters of slender, tubular flowers in shades of pink, red, yellow and orange; all with spotted throats. This showy pot plant requires the same culture as Gloxinias. Tr. pkt., \$1.50.



NAEGELIA



CROSSANDRA

Something New in Potted Plants!

A distinctly new and valuable pot plant. It is an evergreen and ever-blooming plant with glossy, attractive foliage and flower spikes of overlapping, bright salmon florets. Sown any time of the year, but most easily started in early spring and flowers in 6 to 9 months. It demands high temperature (70°) and rich, well-drained soil. 50 seeds, \$2.50; 200 seeds, \$8.00.

PRIMULA OBCONICA

(4,000 seeds per $\frac{1}{32}$ oz.)

These colorful and showy plants still provide the grower with one of his best sources of mid-winter pot plant material. In spite of their effect on some people's skin, they continue to be widely grown and called for.

Sowings made during June and July will produce nice pot plants for late winter and spring. We carry them along in $2\frac{1}{2}$ -inch bands from the seed flat, shifting when ready to their final size pot. Important points are a soil that drains readily and a cool, well shaded location during the summer. Fasbender's Red and Mohnstein's Atrosanguinea are the preferred reds; Berlin Rose is the best pink. Blue and white are wanted in smaller quantities.

• Fasbender's Red. An outstandingly fine, extra large flowered deep crimson-red.

• Better Days. Bright carmine-red.

Mohnstein's Red. (Atrosanguinea). Popular deep red.

• Mueller's Berlin Rose (Mueller's Rosea). Soft medium rose. Heavy compact plants and large flowers.

Salmon-Rose (Lachsrosa). Salmon-rose shades.

• Sky-Blue (Coerulea). Clear mid-blue. A choice strain.

Violet Blue. Deep violet.

White. Rather tall growth.

Wyaston Wonder. A special selection of this famous English variety. Vigorous growing, large flowered bright crimson.

• Formula Mixture. Carefully blended from above colors.

Prices above 10, each: tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Profitable

(25,000 seeds per oz.)

Pansies have really "come of age" within the past few years. Although they've been popular favorites of gardeners for generations, at no time has there been as much interest in Pansies as there is today. And Pansy breeders are largely responsible for this great increase in their popularity. You can't realize what's been going on in the Pansy world until you try some of the remarkable new things offered here. It will be well worth your while to look this list over carefully before ordering.



- **Ruffled Rainbow.** (Pictured above.) An unusually uniform dwarf mixture characterized by medium large flowers with distinctly ruffled petals and a wide range of colors. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$15.00.

America. An exceptionally free flowering mixture with medium sized blooms. Dwarf and extra early. Tr. pkt., 65c; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$10.00.

• **Ball Giant Mixture Dwarf Strain.** A fine Swiss Giant strain selected for dwarf and compact habit. Tr. pkt., 65c; $\frac{1}{8}$ oz., \$1.40; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$32.00.

• **Ball Winter Flowering.** A tall growing winter cut-flower variety; at its best from a late summer sowing. Not for bedding. $\frac{1}{2}$ tr. pkt., 65c; tr. pkt., \$1.10; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00.

Blue Butterfly. Blue and white. An improved Lord Beaconsfield. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$15.00.

• **Engelmann's Giant Mixture.** A large flowered and brightly colored strain, many being penciled or veined. Fairly compact growth. We offer originator's seed only. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$14.00.

Fluffy Ruffles. The medium sized flowers of this imported strain are attractively ruffled and frilled, and the color range is varied and appealing. Tr. pkt., 65c; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00.

Geneva Giants. A taller, vigorous-growing American strain of Swiss Giants. Tr. pkt., 85c; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.

Improved Swiss Giants. Predominates in rich bronze and red shades. Tr. pkt., 65c; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00.

"101" Giant Mixture. A choice bedding and basket Pansy of the "English" type. Large flowers in a wide color range on compact plants. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50; 1 oz., \$12.00.

Maple Leaf Giants. An excellent, extra large flowered strain. Heavy growth with good stems. Tr. pkt., 65c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.

Oregon Giants. A complete mixture of long-stemmed, large flowered Giant Ruffled Pansies. Originator's seed. 200 seeds, 50c; 600 seeds, \$1.25; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$12.00.

• BUTTERFLY HYBRIDS

Ruffled 2½-3-in. flowers, including unusual apricot, terra cotta and rosy orchid shades, are freely produced on vigorous plants. Originators' seed only. Tr. pkt., \$1.25; $\frac{1}{16}$ oz., \$2.25; $\frac{1}{8}$ oz., \$4.00; $\frac{1}{4}$ oz., \$7.00; $\frac{1}{2}$ oz., \$12.50; 1 oz., \$22.50.

"FOUR BEST"

• **Ball Giant Mixture.** This is our finest and most popular bedding Pansy mixture. We blend this ourselves, using the best available strains of Swiss Giants, adding separate varieties to insure a good balance of colors. Tr. pkt., 65c; $\frac{1}{8}$ oz., \$1.40; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$33.00.

• **Canadian Giants.** This selection from Maple Leaf Giants contains some of the largest flowers in Pansies. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$1.85; $\frac{1}{4}$ oz., \$3.30; 1 oz., \$11.00.

Roggli Giant Elite Mix. (Pictured below). A choice Swiss bedding strain, predominating in rich red and bronze shades with the typical, large, deep blotches. The finest large flowered Pansy. We supply originator's imported seed, only. Tr. pkt., \$1.50; $\frac{1}{8}$ oz., \$3.75; $\frac{1}{4}$ oz., \$7.00; 1 oz., \$22.00.

Steele's Jumbo Mixture. We handle the originator's seed of this popular American strain. Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$3.35; $\frac{1}{4}$ oz., \$5.60; $\frac{1}{2}$ oz., \$9.75; 1 oz., \$17.75.

ROGGLI GIANT ELITE MIXTURE (Below)

Consistently the top quality Pansy in our flowering trials. Features deep, rich colors, heavy petals, large flower size. See above for prices.



Pansies



Felix. Pictured on front cover. Uniformly true to type, with well ruffled flowers of good size carried on fairly dwarf plants. Colors are rich and unusual—including purple, apricot and wine shades together with pastel bronzes and smoky tones difficult to describe. Each flower is marked with the dark "whiskers" characteristic of this strain and the over-all effect is indeed striking. Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.50; 1 oz., \$16.00.

Lithographed Retail Packets. We can furnish retail packets to sell for 50c each. Cost to you only 20c each. No orders for less than 10 packets. Display carton furnished with 50 packets. 10 Lithographed Retail Packets of Felix Pansy, \$2.00.

Free posters, advertising mats and labels on request. We can furnish cuts and lithographed envelopes at cost.



Tigress. "Miniature Pansies." The flowers of this European novelty are produced in great abundance, and the effect is most unusual. Reds, yellows, orchids and purples in novel striped and blotched arrangements of at least 3 colors create a striking appearance. This also has a very distinct and fine fragrance. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$5.00.

SEPARATE COLORS

Alpenglow. Mahogany with dark center.

Berna. Dark velvety blue.

● **Coronation Gold.** The finest, clear golden yellow.

● **Delft Blue.** Porcelain-blue; a prized and unusual Pansy color. Flowers rather small. Particularly free flowering.

Firebeacon. Bright, flaming orange with dark center.

Giant Orange. Light orange; similar in color to Viola Apricot.

MONT BLANC

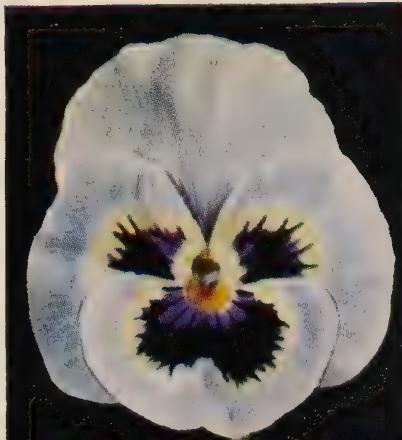
ALPENGLOW



LAKE OF THUN



DELFT BLUE



TIGRESS



RASPBERRY ROSE



CORONATION GOLD



RHINEGOLD

Jet Black. 80% of the flowers are a true black thruout the spring, the purple undertone not becoming apparent until hot weather. Unusual grown with white Pansies. Typical Swiss flower size.

● **Lake of Thun.** Large flowered blue with darker center.

Mont Blanc. Ivory-white with small yellow eye.

● **Raspberry Rose.** Soft pink with contrasting velvety blotch in deeper tone.

Redwing. Red and yellow petals, dark center. Originator's seed.

Rhinegold. Large flowered yellow with dark center.

Prices last 12, each: tr. pkt., 80c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50; 1 oz., \$11.00.

Paper White (New). A pure white, rather than the ivory shade of Mont Blanc, with small yellow eye. Very outstanding in our trials. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$18.00.

Originator's Separate Colors

We have definitely proved by thorough comparative flower-ing trials at West Chicago the general superiority of these originator-grown Swiss Giant Pansies. For flower size, uniformity of color and habit, they are the finest separate color Pansies available.

● **Eiger** (Rhinegold).

● **Hohenfeuer** (Firebeacon).

Blumlisalp (Raspberry Rose).

● **Berna** (Specify originator's seed).

Alpengluhn (Alpenglow).

Jungfrau. White.

Monch (Coronation Gold).

Thunersee (Lake of Thun).

● **Roggli Giant Elite Mix** (See 4 best, opposite page).

● **Roggli Straight Color Mix.** Our own mixture of the above Roggli separate colors, blended by formula.

Prices above 10 varieties, each: tr. pkt., \$1.50; $\frac{1}{8}$ oz., \$3.75; $\frac{1}{4}$ oz., \$7.00; 1 oz., \$22.00.



NEW! PACIFIC PINK

The first really new color in Column Stocks in over a decade, being a bright, luminous salmon-rose-pink, without the bluish cast of all other pinks and roses. Spikes are shapely and well formed with good stems. We believe this is destined to become one of the most popular Non-Branching Stocks within a few years. Be among the first to grow it. **1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/8 oz., \$3.30; 1/4 oz., \$6.00; 1/2 oz., \$10.00; 1 oz., \$18.00.**

WHITE

● **No. 16 Ball White—Medium Tall.** This early pure white is the most popular variety on our entire list.

No. 99 Ball White. We find this pure white averages 4 to 6 inches longer spike and stem than our popular No. 16.

White Giant. Originator's seed. Good long stemmed white. Best white for outdoor culture in cool areas. We prefer our No. 16 Ball White for greenhouse use, altho some growers have reported favorably on White Giant for this purpose.

Gardenia, Imp. Originator's seed. Pure white. Branches somewhat. A fine outdoor strain.

No. 5 Ball Dwarf White. Spikes of this dwarf Non-Branching Stock resemble a white Hyacinth. An ideal pot plant variety.

Avalanche. Long, column-like spikes of pure white are carried on firm but not bulky stems of good length. About a week later than Ball White No. 16 when flowered under glass, but exceptionally nice. Probably the finest white for California and Arizona outdoor growing.

Ball COLUMN (NON-BRANCHING) Stocks

(18,000 seeds per oz.)

A visit to any market in the spring will confirm the fact that Non-Branching Stocks remain high on the list of cool house crops. Easter remains the high point for them, but for either market or retail grower a succession of crops flowering from February through May pays best. **Steady supply!**

Our Stock breeding work (already 21 years old) has recently yielded improved strains of white, lavender, pink and other colors. We believe you will find them definitely heavier, finer spiked, generally superior. These new strains are offered at standard prices.

We figure on 5 to 5½ months from seed sowing to cutting for Easter, and 4½ to 5 months for Mother's Day, depending on whether raised or ground benches are used, temperatures, and the prevailing amount of sunshine. We space them 3 inches in rows 6 inches apart crossways of the bench. Soil sterilization is important, as is good drainage and care in watering to aid in the control of the root rot which sometimes affects Stocks. Sub-irrigation, where practical, affords excellent control, as the surface of the soil where infection occurs can be kept relatively dry. Seed may be sown direct in the flowering bench and plants thinned later; or transplanted from seed flats, saving a month's use of bench space. Direct sowing in 2x2 veneer bands pays where you are crowded for time.

See GROWER TALKS, August 1952, for complete cultural notes.

OUR "6 BEST"

- **No. 16 Ball White—Medium Tall.** Early, pure white.
- **No. 1 Lilac-Lavender Improved.** Popular silvery lilac.
- **No. 22 Ball Supreme.** Fine, heavy spikes of rich silvery rose.
- **No. 20 Ball Apricot.** Apricot, faintly tinged pink.
- **No. 21 Purple Heart.** Bright violet-purple.
- **No. 8 Ruby Improved.** Crimson-red.

COLLECTION. 1 tr. pkt., each of the 6 best varieties for \$6.75.

PINK, ROSE and RED

● **No. 22 Ball Supreme.** A long stemmed, vigorous growing variety with fine, heavy spikes of rich silvery rose. The most outstanding Stock in its color class.

No. 11 Ball Pink. A medium light rose-pink. Earlier and somewhat lighter than our No. 22, but not quite as long stemmed.

No. 14 Ball Rose. An early flowering, fairly deep rose-pink. Darker in color and longer stemmed than the above variety.

No. 9 Chamois-Pink. A warm rosy buff color. Good stems and flower spikes.

No. 7 Malmaison Pink Improved. Long spikes of soft shell-pink; a popular color. Entirely non-branching.

No. 6 American Beauty. Rich deep American Beauty or carmine-rose. An appealing color.

● **No. 8 Ruby Improved.** Larger florets and a more brilliant scarlet-crimson color than the original Ruby.

Pink Giant. Originator's seed. Color identical to No. 14 Ball Rose, but later and somewhat taller.

U.S.D.A. Double Pink (New). A U.S.D.A. development based upon and apparently improving the Hansen dark-leaved single, light-leaved double strain. Light-leaved doubles may be selected in seedling stage. Preliminary observation of our greenhouse flowering trials as this catalog goes to press indicates questionable commercial value of this strain. Stem length is greater than Hansen's from which it was derived, but not as long as regular Columns. Doubles retain chlorotic appearance in blooming stage. Seed ready October 1. **1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/8 oz., \$3.30; 1/4 oz., \$6.00; 1/2 oz., \$10.00; 1 oz., \$18.00.**

Prices all Non-Branching Stocks (except Pacific Pink and U.S.D.A. Double Pink), each: **1/2 tr. pkt., 75c; tr. pkt., \$1.25; 1/4 oz., \$2.75; 1/2 oz., \$5.25; 1 oz., \$10.00.**

Ball COLUMN (NON-BRANCHING) Stocks

(18,000 seeds per oz.)

LAVENDER, BLUE and PURPLE

- **No. 1 Lilac-Lavender Improved.** Popular silvery lilac. Heavy stems with long flower spikes. We find it quite resistant to rot.
- No. 3 Ball Blue Improved.** Heavier stems and better spikes than our earlier Ball Blue.
- **No. 21 Purple Heart.** Long stemmed, large flowered, bright violet-purple.

MISCELLANEOUS VARIETIES

- **No. 20 Ball Apricot.** Long spikes of rich apricot tinged pink.
 - No. 24 Deep Apricot Improved.** A more coppery terra cotta shade than the earlier strain. A good novelty color.
 - No. 17 Gold Standard.** Creamy ivory-yellow.
 - No. 10 Mixture.** Our own formula mixture.
 - Yellow Wonder.** Popular yellow for outdoor growing.
- Prices** above Non-Branching Stocks, each: $\frac{1}{2}$ tr. pkt., 75c; tr. pkt., \$1.25; $\frac{1}{4}$ oz., \$2.75; $\frac{1}{2}$ oz., \$5.25; 1 oz., \$10.00.

FOR OUTDOOR GROWING

We recommend the following varieties for cut-flower use outdoors in California and other areas where they are grown.

Avalanche	Malmaison Pink Improved No. 7
White Giant	Lilac-Lavender Improved No. 1
Gardenia	Purple Heart No. 21
Ball Supreme No. 22	Yellow Wonder
Ball Rose No. 14	Pink Giant
Pacific Pink	

Write for Quantity Prices



No. 16 BALL WHITE

An Easter crop of our No. 16 Ball White in our greenhouses in West Chicago.

Hansen's ALL-DOUBLE Select Stocks

Light leaved doubles and dark leaved singles—apparent in the seedling stage—provide a positive means of separating singles from doubles in this strain. Stems are about $\frac{1}{2}$ as long as the regular Ball-type Column stocks. Seedlings must be developed in temperatures of 50° or lower for accurate selection of light-leaved doubles.

Shell-Pink **Lilac-Rose** **Rose** **White**
Prices above 4 varieties, each: tr. pkt., \$1.50; $\frac{1}{16}$ oz., \$2.70;
 $\frac{1}{4}$ oz., \$9.00.

Branching Mixed. A branching type of the All-Double Select Stocks described above. Used for bedding and pots. Tr. pkt., 75c; $\frac{1}{16}$ oz., \$1.20; $\frac{1}{4}$ oz., \$4.00.

BRANCHING STOCKS GIANTS OF CALIFORNIA

NEW TRYSONIC STOCKS

- **Trysonic Hi-Double Mixture.** An unusual new race of branching Stocks which makes use of scientific plant breeding principles to produce 80-85% double flowering plants. Because only a small portion of single plants (the trysonics) can be used for the seed crop, the cost is necessarily somewhat higher than that of normal Stocks. All colors are represented in this mixture. $\frac{1}{2}$ tr. pkt., \$1.00; tr. pkt., \$1.75; $\frac{1}{8}$ oz., \$2.90; $\frac{1}{4}$ oz., \$5.00.

Golden Gate. Soft, creamy yellow.

Monterey. A clear bright pink.

● **Pacific.** Fairly dark lilac-mauve.

Redwood. Ruby-red.

Santa Barbara. Chamois or buff.

● **Santa Maria.** Best branching white.

● **Tahoe.** Clear lavender.

● **Yosemite.** Rich rose-pink.

Prices last 8, each: tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.40; 1 oz., \$4.75.

Mixture of all colors in this class. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

DWARF TEN WEEK

Blood-Red	Carmine-Pink	Lavender
Canary-Yellow	Deep Rose	Purple
White	Formula Mixture	

Prices above 8, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

IMPROVED BISMARCKS

Antique Copper. Fine copper-red.
Apple Blossom. Pale, delicate pink.

Blood-Red. Bright ruby-red.

● **Chamois.** Clear chamois or buff.

● **Elk's Pride.** Rich purple.

Golden Ball. Ivory-yellow.

● **Lavender.** Clear lilac-lavender.

Lilac. Fairly deep lilac-blue.

● **Rose.** Fine bright rose-pink.

● **Shasta.** Giant flowered white.

Formula Mixture of above colors.

Prices above 11, each: tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

BROMPTON or WINTER

Early Harbinger. Mixed colors. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

Winter Sweet Peas

(350 seeds per oz.)

NEW! ZVOLANEK'S MULTIFLOWERED CLASS



5's and 6's are not uncommon in this strain

These fine varieties are unusually free flowering and long-stemmed with many stems carrying 5 and 6 flowers instead of the usual 3 and 4. Sweet Pea growers can readily appreciate what this will mean in better market returns over a period of a few weeks of picking.

Deep Rose (New). Deep, bright rose; fine for spring. 5's and 6's on long stems. Vigorous growth.

Lavender (New). Orchid-lavender, near Twilight in color. 4's and 5's on extra long stems. A strong grower.

Giant Lilac (New). Bright mauve, same color as Triumph. Large flowers in 4's and 5's on extra long, heavy stems. Strong growth.

Whirlwind. Large, light rose-pink flowers in 5's on long stems.

- **White.** Pure white. Many 5's on long, strong stems.
- **Rose.** Extra large medium rose flowers with many 5's on extra long, heavy stems. Vigorous growth.
- **Salmon-Pink.** Large, medium rose-pink flowers with salmon cast. 4's and 5's. Stems are extra long, but not as heavy as the above varieties.
- **Orange-Cerise.** Color as named. Extra large flowers on long stems. A bright and striking color.

Multiflowered Mix.

Prices above varieties, each: $\frac{1}{2}$ oz., \$1.75; 1 oz., \$3.00; 4 ozs., \$10.00; 1 lb., \$35.00.

STANDARD VARIETIES

PINK, ROSE and SALMON

Apollo. Salmon-cerise; fine for spring.

Boon. Deep salmon-rose.

● **Bridesmaid.** Delightful silvery pink. Long stemmed.

● **Daphne.** Soft salmon-pink on cream. Large flowered.

● **Hiawatha.** Strong growing, large flowered deep rose.

Laddie Imp. Long stemmed, fairly light rose-pink.

● **Mother Machree.** Large coral-rose flowers; semi-duplexed.

Sequoia. Large flowered standard salmon-rose.

Tops. Extra large, wavy flowered, light salmon-rose.

WHITE and CREAM

● **Gardenia.** Long stemmed pure white for spring.

● **Hope.** Fine black seeded white.

White Harmony. Similar to Hope; black seeded.

Winter Peas are still one of the retail grower's bread and butter crops—and when well grown they are wanted on most wholesale markets. The long stemmed, fragrant beauties that bring real prices call for sterilized soil and early sowing so that vines will become sufficiently hardened to hold buds for winter flowering. With us this is early July—later farther south. Based on our annual greenhouse trials, the varieties listed under our "12 Best" are dependable and proven commercial varieties.

OUR "12 BEST"

PINK, ROSE and SALMON

- **New Ball Rose.** Free flowering, bright rose. Shorter vines make this variety valuable where headroom is limited.
- **Ball Rose Queen.** Extra long stemmed and large flowered clear rose-pink. One of the finest commercial varieties.
- **Ball Rose Supreme.** Large wavy flowers of bright silvery rose-pink. Good stems and free flowering.
- **Ball Salmon.** Fairly deep salmon-pink; an excellent producer.

ORANGE and RED

- **Ball Orange Supreme.** Improves the original Ball Orange in better stem length and more brilliant color.
- **Treasure Island.** Large wavy flowers of golden orange.
- **Fiesta.** Brilliant scarlet-cerise, the finest red in early Peas.

LAVENDER, BLUE and PURPLE

- **Ball Blue Supreme.** The same rich blue color as Mrs. Hoover, but larger flowered and a better producer.
- **Twilight.** A bright clear lavender. Considered by many an improvement over Harmony.
- **Triumph.** Long stemmed, rich lilac-mauve; very well liked.
- **Rhapsody.** Extra large flowered, deep rosy lavender.

WHITE

- **Ball White.** The finest long stemmed pure white; white seeded.

MIXTURE

- **12 Best Mixture.** Our own formula mixture of the above twelve. Prices above 13, each: $\frac{1}{2}$ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

COLLECTIONS

$\frac{1}{2}$ oz. each of the above "12 Best" named varieties for \$3.80. 1 oz. each of the above "12 Best" named varieties for \$6.10.

LAVENDER, BLUE and PURPLE

Avalon. Large, even mid-blue flowers on long stems.

Bacchus. Deep maroon; large flowered.

Harmony. Standard early flowering lavender.

Michigan. Clear lavender.

● **Mrs. Hoover.** Standard early mid-blue.

Top Hat. Deep, bright violet-blue.

ORANGE and RED

Redwood. Large flowered, deep velvety crimson.

● **Sparks.** The finest Poppy scarlet.

MIXTURE

Ball Early Mixture. Carefully balanced mixture of winter varieties. $\frac{1}{2}$ oz., 30c; 1 oz., 50c; 4 ozs., \$1.50; 1 lb., \$5.50.

Prices all above (except Mixture), each: $\frac{1}{2}$ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

Spring Peas

(350 seeds per oz.)

CUTHBERTSON STRAIN

This class, being intermediate in flowering date between the Winter and Summer types, is proving increasingly valuable for spring greenhouse flowering.

PINK, ROSE and SALMON

- Billy.** Bright cerise-rose on salmon; very showy.
- **Carol.** Attractive clear pink on white ground; salmon shading.
- Doris.** Deep cherry-rose. Extra strong growth with fine stems.
- Evelyn.** Extra long stemmed, soft salmon-pink.
- **Lois.** Light rose-pink, similar in color to Ball Rose Queen.

RED

- Coline.** Vivid, intense scarlet.
- **Jimmy.** Rich, deep cerise-red.

LAVENDER, BLUE and PURPLE

- Danny.** Brilliant, deep marine blue.
- **Frank G.** Fine soft rosy lavender. One of the best.
- Hazel.** Soft, light Princess Blue shade.
- Jessie.** Resembles Triumph.
- **Tommy.** A clear mid-blue about the color of Mrs. Hoover in the Winter class.

WHITE

- **Janet.** Large frilled white. Black seeded.



Showing our method of handling outdoor Sweet Peas. Both the Summer Flowering and Cuthbertson classes are treated alike, the latter flowering about 2 weeks earlier—an advantage where summers are hot.

MIXTURE

- **Mixture.** Balanced according to demand for each color.
- Prices last 14 Cuthbertson varieties, each: $\frac{1}{2}$ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

Summer Peas

(350 seeds per oz.)

PINK, ROSE and SALMON

- **Ball Shrimp-Pink.** A pleasing soft shrimp-pink. Vigorous growth and long stems make this outstanding.
- **Maytime.** A bright golden cerise with large flowers and long stems.

Miss California. Large salmon-rose.

- **Pinkie.** Finest large flowered rose-pink; long stemmed and a heavy producer.
- **Sweet Afton.** Strong growing bright silvery pink. An excellent variety.

LAVENDER, BLUE and PURPLE

- **King Lavender.** Exceptionally fine clear even lavender with long strong stems. Excellent growth.
- Olympia.** Deep purple.
- **Windsor Blue.** A supremely fine mid-blue. Its clear even color, stem length, and flower size set it apart.

RED

Red Rover. Deep crimson (same as Redwood in Earlies).

- **Welcome.** An intense sunproof scarlet of vigorous growth. Fine flower size and stem, and a heavy producer.

WHITE

Gigantic. Excellent, pure white; black-seeded.

- **Snow White.** The finest clear white; black-seeded.

MIXTURES

Ball Best Mixture. Composed only of the best varieties in proportion to their commercial value.

Florists' Mixture. All colors in the late flowering class. 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Prices all Summer Peas except Florists' Mixture, each: $\frac{1}{2}$ oz., 25c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.00.

Popular Hardy Perennials

A sowing of hardy perennials made this summer will flower freely next year with a minimum of care. See our January catalog for a more complete description of the following.

ACHILLEA—● **Filipendula, Parker's Variety** (Cloth of Gold). Golden yellow.

● **The Pearl** (Ptarmica). The standard double white for cutting. Above 2, each: tr. pkt., 30c; $\frac{1}{8}$ oz., 70c; $\frac{1}{4}$ oz., \$1.25.

ACONITUM (Monk's Hood)—**Napellus**. Dark blue; does best in partial shade. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c.

ALSTROEMERIA—● **Chilensis**. Shades of pink, rose and red. Medium tall. For bedding and cut flower use. Germination erratic. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$5.00.

ALYSSUM—● **Saxatile Compactum** (Gold Dust). Rich golden yellow. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

Saxatile Silver Queen (Sulphureum). Light lemon-yellow. Tr. pkt., 30c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.40.

ANCHUSA—**Dropmore Strain** (Italica). Nice blue for cutting. Tr. pkt., 20c; 1 oz., 60c.

Myosotidiflora. 12 in. May flowering Forget-me-not-blue. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.35; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$8.50.

ANEMONE—**St. Brigid Mixed**. Choice long stemmed mixture of brilliant colors. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.10; 1 oz., \$3.25.

ANTHEMIS—**Kelwayi** (Hardy Marguerite). 3 ft. Yellow Daisy flowers produced throughout summer. Tr. pkt., 20c; 1 oz., 70c.

AQUILEGIA (Columbine)—**Alpina**. 18 in. Blue.

Coerulea (Rocky Mountain Columbine). 18 in. Sky-blue; white corolla.

● **Mrs. Scott Elliott's Mixture**. 2 ft. An excellent and popular long-spurred mixture.

Rose Queen. 18 in. Rose with white corolla.

Snow Queen. 2 ft. Extra large, pure white flowers. Above 5 varieties, each: tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10; 1 oz., \$3.25.



AQUILEGIA CRIMSON STAR HYBRIDS

The rich contrast of its red and white flowers have made Crimson Star Hybrids one of the most popular Aquilegias grown.



ALSTROEMERIA CHILENSIS

This South American Lily-like plant is hardy in most parts of the United States. The flowers keep well, make attractive corsages.

Copper Queen. 2 ft. Copper-red shades with yellow corolla. Tr. pkt., 55c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00.

● **Crimson Star Hybrids**. 18 in. Dark red with white corolla; varies some. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.75; $\frac{1}{4}$ oz., \$3.00.

Longissima Yellow. 2 ft. Delicate, pale yellow with extra long (4 in.) spurs. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$2.50; $\frac{1}{8}$ oz., \$4.75.

● **Longissima Mixed**. 2 ft. A variety of attractive shades in this extra long-spurred class. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$2.00.

Mrs. Nicholls. 2 ft. Deep blue. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00.

● **Long-Spurred Mixture**. A well-balanced blend with large flowers and long spurs. Based on our trial ground observations, this is the preferred mixture. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10; 1 oz., \$3.25.

ARABIS (Rock Cress)—**Alpina, Snowcap**. 6 in. Shining snow-white. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.75.

Alpina. 12 in. White. Tr. pkt., 25c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.80.

● **Spring Charm** (Blepharophylla). Carmine. Semi-hardy. This variety should be wintered over in frames. Will bloom in April-May. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{2}$ oz., \$4.50.

ARMERIA (Thrift)—**Alpina**. Dwarf, bright rose. Tr. pkt., 75c; $\frac{1}{16}$ oz., \$2.75.

Formosa, Large-Flowered Hybrids. 2 ft. Tr. pkt., 40c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.40; 1 oz., \$4.25.

● **Glory of Holland**. Ball-shaped deep pink flowers about $1\frac{1}{2}$ inches in diameter, carried on straight wiry stems 2 feet long. Fine for cutting and blooms throughout the summer. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$2.00.

ARTEMISIA—**Silver Plume** (Lactiflora). Silvery foliage; creamy blooms. For cutting. Tr. pkt., 40c; $\frac{1}{16}$ oz., 75c; $\frac{1}{4}$ oz., \$2.25.

ASCLEPIAS—**Tuberosa**. Fine orange for cutting. Tr. pkt., 30c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00.

ASPARAGUS—**Willow Spray** (Verticillatus). Completely hardy, summer green material. Finely cut foliage. Requires 3 years for best results. Tr. pkt., 55c; $\frac{1}{2}$ oz., \$1.35; 1 oz., \$2.50.

ASTER—**Hardy Large-Flowered Mixture**. Attractive assortment. Tr. pkt., 55c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25.

Alpinus, Finest Mixed. Tr. pkt., 55c; $\frac{1}{8}$ oz., \$1.10.

PERENNIALS—Continued

AUBRIETIA—Large-Flowered Hybrids. (Monarch strain.) 6 in. Low growing mat-like plants; similar to Arabis but with flowers in a wide range of colors from lilac to purple.

Hendersoni. Deep purple.

Leichtlini. Carmine-rose.

Prices above 3, each: tr. pkt., 55c; $\frac{1}{8}$ oz., \$1.10.

BAPTISIA—*Australis* (False Indigo). 3 ft. Sprays of pea-shaped indigo-blue flowers. Tr. pkt., 30c; 1 oz., 80c.

BELLIS—*PERENNIS*. Popular Double English Daisy. Red Rose White

Above 3, each: tr. pkt., 60c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75.

Mixture. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.80; $\frac{1}{4}$ oz., \$3.40.

BOCCONIA—*Japonica* (Plume Poppy). Tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.65.

BOLTONIA—*Latisquama*. 4 to 5 ft. Delicate pink. Tr. pkt., 30c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.25.

BROOM—Hybrids Mixed. 4 to 5 ft. Vigorous shrubs; bright color range. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.35.

CAMPANULA—*CARPATICA*. Dwarf perennial.

Blue. Tr. pkt., 30c; $\frac{1}{8}$ oz., 80c; $\frac{1}{4}$ oz., \$1.45.

• **Cullinmore Mixture**. Contains many new colors in this dwarf class. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.80.

Rock Garden Blend. Desirable, low-growing kinds in a wide range of Campanula colors. Tr. pkt., 75c. **Limit, 2 tr. pkts.**

MEDIUM CALYCANTHEMA (Cup-and-Saucer type).

Dark Blue Light Blue Rose White Mixture
Above 5, each: tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

MEDIUM SINGLE (Canterbury Bells).

Dark Blue Light Blue Pink White Mixture

Above 5, each: tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., 90c.

MEDIUM DOUBLE (Canterbury Bells).

Formula Mixed. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.40.

PERSICIFOLIA.

White Blue Mixture

Above 3, each: tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85.

Telham Beauty. China-blue. 30 in. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85.

PYRAMIDALIS (Chimney Campanula). 5 ft.

Mixture. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85.

CARNATION—*GRENADIN* (Hardy Carnation). 20 in.

King of the Blacks. Darkest red.

Golden Sun • **Pink** • **Red** White • Mixture

Above 6, each: tr. pkt., 60c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.50.

CATANANCHE—*Coerulea*. 24 in. Everlasting light lavender-blue flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

CENTAUREA—*Montana*. 24 in. Large Cornflower-blue flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

CERASTIUM—• **Tomentosum** (Snow-in-Summer). White edging and rockery plant. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.80.

CHEIRANTHUS (Siberian Wallflower)—• **Golden Bedder**. 18 in. Large, deep golden yellow. Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.20.

Orange Queen. 18 in. Free flowering, brilliant orange. Tr. pkt., 20c; 1 oz., 50c; 4 ozs., \$1.50.

CHRYSANTHEMUM—• **Glory Mixture**. Our finest mixture of hardy Mums. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.50.

Korean Hybrids. Single and semi-double types in a good color range. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.50.

CLEMATIS—*Paniculata*. White-flowered climber.

Recta, Mandschurica. Upright growing, pure white.

Above 2, each: tr. pkt., 75c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75.

COREOPSIS—• **Sunburst** (New Gold). 24 in. A fine semi-double strain. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.10.

Mayfield Giant. 30 in. Extra large, deep golden yellow. Single. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., 90c.

DAISY (Chrysanthemum Maximum).

• **G. Marconi**. The largest flowered and finest double Shasta Daisy. ORIGINATOR'S SEED: tr. pkt., 80c; 5 tr. pkts., \$3.60. REGULAR STOCK: tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00.

Double Fringed (Diener's). A specially reselected strain. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.35; $\frac{1}{4}$ oz., \$4.25.

June Marguerite. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

• **Mayfield Giant**. Quite large flowered; end of June.

Alaska. The standard Shasta Daisy; July.

Conqueror. Giant late white; late July.

Above 3, each: tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

DELPHINIUM—See page 20.

DIANTHUS—*Alwoodi Alpinus Mixed*. 8 to 10 in. Single flowers in shades of pink. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

• **Deltoides Erecta**. 6 in. A dwarf rose-pink "Maiden Pink." Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

• **Latifolius Atrococcineus**. 12 to 15 in. Miniature Rose-like crimson flowers. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$5.25.

Loveliness. Large, fringed and curled pastel and white flowers. Quite fragrant. Originator's seed. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.50; $\frac{1}{4}$ oz., \$4.50.

Winteri. Large single flowers in a rich mixture of pure colors. Long blooming period. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{2}$ oz., \$5.00.

PLUMARIUS (Clove Pink). **Cyclops**. Deep rose with crimson ring. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10.

Double Mixture (Scoticus Florist Strain). Unusual colors. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$5.25.

Single Mixture. Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.45.

BARBATUS (Sweet William). Early June flowering. 24 in.

• **Holborn Glory**. Striking combination of crimson with white.

• **Newport Pink** (Pink Beauty). Salmon-rose shade.

Purple Beauty. A rich deep color.

Scarlet Beauty. Well named, intense scarlet-red.

Giant White. Ours is an extra large-flowered strain.

Single Mixture • **Double Mixture**

Above 7, each: tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

• **Single Midget Mixed**. A very fine rock plant. 6 to 8 in. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

Double Midget Mixed. Tr. pkt., 40c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00.

DICENTRA—*Spectabilis* (Bleeding Heart). Rosy red flowers. 32 in. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.00; $\frac{1}{8}$ oz., \$3.75. **SOLD OUT**. New seed available in late fall.

Eximia (Plumy Bleeding Heart). Dwarf, 12 in. Rose-pink. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10.

DICTAMNUS—*Fraxinella* (Gas Plant). Pink with dark veins. Tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.85.

DIGITALIS—*GLOXINOIDES* (Foxglove).

Purple Rose White Giant Shirley Mixture
Above 4, each: tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.15.

DORONICUM—*Caucasicum Magnificent*. 18,000 S. 2 ft. Large yellow Gerbera-like flowers with long stems. Keeps well when cut. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.25.

ECHINOPS—*Ritro* (Globe Thistle). Blue flower heads $1\frac{1}{2}$ to 2 inches in diameter. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10; 1 oz., \$3.25.

EDELWEISS. See Leontopodium, page 21.



Grow Giant Pacific Hybrids for more profits—
either for cut flower or for small plant sales.

Florists' Delphinium

(10,000 seeds per oz.)

Delphinium should be a substantial part of almost every grower's program. They're invaluable cut flowers and you'll find a ready demand for plants. The remarkable Giant Pacific Hybrids are "tops" almost everywhere.

For outdoor cut flowers: Sow Sept. 1 thinly, direct to a cold frame—fresh seed and cooler weather then helps sprouting. In late fall remove sash and protect with some loose, coarse material. You'll have fine plants either for field planting or plant sales the next spring.

For greenhouse forcing: Sow Aug. 1, transplant seedlings to cold frame when ready. About Dec. 1 move them to a cold house, spacing 6x8 in. for hybrids; 6x6 in. for Belladonna types. Feb. 1 run them up to 40° nights, gradually increasing to 50°. You'll cut excellent spikes from Mother's Day well into July.

GIANT PACIFIC STRAINS Court Series

Our "6 BEST" Varieties are Dotted (●)

- **Black Knight.** Deep midnight violet. The darkest of all.
- **Blue Bird.** The clearest of medium blues; white bee.
- **Blue Jay.** A brilliant true medium blue with dark bee.
- **Cameliard.** A pure lavender with white bee. Very attractive.
- **Galahad.** The finest clear white Delphinium.
- **Guinevere.** Excellent, light pinkish lavender; white bee.
- **King Arthur.** Royal violet with white bee. Exceptional size.
- **Percival.** Large, glistening white flowers with strongly contrasting black bees.
- **Summer Skies.** Light blue with an attractively contrasting white bee.
- **6 Best Mix.** Formula mixture of the "6 Best" varieties.
- **Round Table.** Contains all above plus many new colors.

Prices of above:

Originator's Seed (Vetterle & Reinelt). An excellent strain of the Giant Pacifics kept uniform and vigorous by the originator. New crop seed expected from September on. $\frac{1}{2}$ tr. pkt., \$1.25; tr. pkt., \$2.00; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.50; 1 oz., \$20.00.

Regular Seed. A satisfactory strain one generation removed from originator's seed. Grown by a reliable seed producer. Tr. pkt., \$1.50; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.50; 1 oz., \$15.50.

ASTOLAT

This series is composed principally of pale blush shades with several darker tones including a few raspberry-rose. All have dark bees. We supply originator's seed, only. $\frac{1}{2}$ tr. pkt., \$1.50; tr. pkt., \$2.25; $\frac{1}{8}$ oz., \$4.50; $\frac{1}{4}$ oz., \$8.00.

GIANT PACIFIC REGULAR STRAIN

Clear White. A fine clear white, large flowered.

Blue Shades. Mixture of light, medium and dark blue shades.

Lavender Pastel Shades. Lavender combinations with dark bee.

Mixture. All colors in this fine type.

Prices above 4, each: tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.25; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$13.50.

DELPHINIUM CHINENSIS (Annual Delphinium)

(20,000 seeds per oz.)

● **Blue Mirror.** Bright navy-blue flowers without spurs. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

● **Cambridge Blue.** The standard Belladonna-blue variety. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.75.

White **Dark Blue** **Mixture**

Prices above 3, each: tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

OTHER VARIETIES

● **Belladonna Imp.** (Cliveden Beauty.) A carefully reselected strain of this popular light blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.25; 4 ozs., \$11.00; 1 lb., \$40.00.

Belladonna. Light blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.35.

Bellamosum Improved. A reselected strain of this standard deep blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.25; 4 ozs., \$11.00; 1 lb., \$40.00.

● **Lamartine.** Deep, bright marine-blue with white eye. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

● **Blackmore and Langdon Hybrids.** Shades of blue with contrasting bees. A fine free-flowering hybrid strain. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.00.

Wrexham or Hollyhock Strain. Extra large, tapering spikes. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.

Gold Medal Hybrids. Tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.75.

Cardinale. Bright scarlet. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.50.

IMPORTANT! Delphinium seed usually doesn't germinate satisfactorily after a year. For this reason, where germination is not up to par, we give double quantity from June 1st until new crop is received—unless we are instructed to hold your order for new crop seed which will be available from early August to September on, depending on harvesting conditions.

PERENNIALS—Continued

EUPHORBIA—*Corollata* (Wild Baby's Breath). 24 in. Small white flowers. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25.
Myrsinites. 6 to 8 in. Silvery foliage. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.
Polychroma. 15 to 18 in. Bushy plants with bracts of bright yellow changing to rosy bronze. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.35.

FEVERFEW (Matricaria)

● **Ball Double White Improved**. 90% double imbricated blooms. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.00; $\frac{1}{8}$ oz., \$3.60.

ALL-DOUBLE DWARF. 8 to 10 in. For pots or borders.
 ● **Golden Nuggets**. Tr. pkt., 35c; $\frac{1}{16}$ oz., 60c; $\frac{1}{4}$ oz., \$2.00.
 ● **Snow Puffs**. Tr. pkt., 35c; $\frac{1}{16}$ oz., 60c; $\frac{1}{4}$ oz., \$2.00.

GAILLARDIA—**GRANDIFLORA**—● **Dazzler**. The standard fine cutting strain. Golden yellow with maroon center.

● **Monarch Strain**. A very superior mixture.
 Above 2, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.85.
 ● **Burgundy**. Red. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.
Portola Hybrids Mixed. Large maroon-red flowers tipped with yellow. Tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.85.
Goblin. Compact plants; red and yellow bicolor flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.
Aurea Pura. Pure yellow. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

GEUM—**Lady Stratheden**. Yellow. **Mrs. Bradshaw**. Red. Above 2, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 90c; 1 oz., \$2.70.

GILIA—**Coronopifolia** (Standing Cypress). Heads of scarlet flowers on 5-ft. plants. Tr. pkt., 30c; $\frac{1}{8}$ oz., 65c; $\frac{1}{4}$ oz., \$1.10.

GYPSOPHILA—● **Pacifica**. 24 in. Starry pink flowers in Sept. and Oct. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.85.

● **Oldhamiana**. Feathery light pink. Oct. flowering; watch frost dates. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.
PANICULATA. ● **Double Snow Flake**. 40 in. About 50% are double flowering. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.40; 1 oz., \$4.75.
Single White. 40 in. Tr. pkt., 20c; 1 oz., 45c; 4 ozs., \$1.50.
REPENS Rose. 6 in. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.50.

HELIANTHEMUM—**Mutabile** (Sun Rose). 8 to 10 in. Attractive dwarf rock plant. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.40.

HELLEBORUS—**Niger** (Christmas Rose). Attractive 2½-in. white flowers; basal foliage. Seed should be frozen before sowing, or sown outdoors in fall for best results. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

HESPERIS—**MATRONALIS** (Sweet Rocket.) Sweet scented. **Violet** **White** Above 2, each: tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

HEUCHERA—**SANGUINEA** (Coral Bells). 24 in.
Splendens. Crimson. **Hybrida Mixed** Above 2, each: tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.75; $\frac{1}{8}$ oz., \$3.25.

HIBISCUS—**Mallow Marvels Mixed**. Ours is an extra large-flowered strain. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.35.

HOLLYHOCK—**Imperator Improved**. Choice double-crested mixture. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Allegheny Mixed. Single and semi-double types. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., 90c.

● **Triumph**. Double-fringed flowers in delicate art shades. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.80.

CHATER'S DOUBLE. The standard double Hollyhock.

Chamois	Sulphur Yellow	Newport Pink
Scarlet	Lilac Beauty	Black . Deep maroon.
Deep Rose	White	Mixture

Above 9, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.65.

IBERIS (Hardy Candytuft)—**Gibraltarica**. 12 in. Large-flowered lilac. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

Sempervirens. 12 in. White flowers in late May. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.75.



ALL DOUBLE FEVERFEW

Both the white **Snow Puffs** and **Golden Nuggets** make excellent pot plants and border material.

IBERIS—Continued

Juncunda. 4 in. Pink flowers. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.50; $\frac{1}{4}$ oz., \$5.40.

INCARVILLEA—**Grandiflora Brevipes**. Brilliant dark rose. **Delavayi**. 24 in. Large, Gloxinia-like, rosy purple flowers. Above 2, each: tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.20.

IRIS—**Dichotoma** (Vesper Iris). Assorted colors; fragrant. Tr. pkt., 35c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.10.

Kaempferi. A wide variety of colors; many doubles. Tr. pkt., 40c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.

LATHYRUS—**LATIFOLIUS** (Hardy or Everlasting Sweet Pea).

Pink Beauty **White Pearl** **Red** **Mixture**
 Above 4, each: tr. pkt., 25c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.10.

LAVANDULA—● **Munstead Strain**. 12 in. Freely produces large, sweet-scented flowers. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10.

LEONTOPODIUM—**Alpinum** (Edelweiss). Small, greenish white flowers. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.10; $\frac{1}{8}$ oz., \$2.00.

LIATRIS (Gay Feather)—● **Pycnostachya**. Long-spiked purple. **Scariosa Purple**. Extra large individual flower heads.

Spicata. Purple. Not as long stemmed as Pycnostachya. Above 3, each: tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

Scariosa White. Pure white. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.50.

● **September Glory**. Tall growing with purple spikes. **Kobold**. Hybrid, non-branching lilac-purple. Above 2, each: tr. pkt., 60c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

LILIES—● **White Queen** (Canadian hardy strain). Finest white seed propagated Lily. $\frac{1}{2}$ tr. pkt., 75c; tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00.

Candidum (Madonna Lily). Tall pure white. Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.25; 1 oz., \$16.50.

Formosanum, Giant Flowered. White. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$13.00.

Henryi. Orange, spotted brown. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

Regale (Regal Lily). White with yellow throat; pink reverse. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.50; 4 ozs., \$5.00.

Rothschildiana. Crimson with yellow bands. Popular corsage flower. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00.

Tenuifolium, Coral Lily. Medium-sized flowers of brilliant coral-red. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c.

PERENNIALS—Continued

LINUM—**Perenne** (Per. Flax). Blue. Tr. pkt., 20c; 1 oz., 60c.
Flavum. Yellow. Tr. pkt., 30c; 1/4 oz., 75c.
Collinum. Dwarf growing, light blue. Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.50.

LOBELIA—**Cardinalis** (Cardinal Flower). 36 in. Bright red. Tr. pkt., 40c; 1/4 oz., \$1.30; 1 oz., \$3.90.

LUNARIA—**BIENNIS** (Honesty or Money Plant).

White	Mixture
Above 2, each: tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.40.	

LUPINE—**POLYPHYLLUS** (Hardy Lupine).

● **Russell Strain.** Long, closely set spikes of extra large florets in rich self colors and unusual bicolors. Developed by a famous English specialist.
RESELECTED STOCK (Originator's packets): 24 seeds, 40c; 65 seeds, 65c; 150 seeds, \$1.25; 350 seeds, \$2.50.
REGULAR SEED: tr. pkt., 40c; 1/4 oz., 65c; 1 oz., \$2.10; 4 ozs., \$6.50.

Dark Blue. Tr. pkt., 20c; 1/4 oz., 40c; 1 oz., \$1.15.

Rose. Tr. pkt., 35c; 1/4 oz., 65c; 1 oz., \$2.00.

White. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.10.

● **Harkness Regal Mixture.** The standard fine hybrid mixture. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.10.

LYCHNIS—● **Chalcedonica** (Maltese Cross). Scarlet. Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.40.

Rose. 5 in. Brilliant rose, for rock gardens. Tr. pkt., 50c.

Forrestii. 15 in. Rose, lilac, white and red. Excellent cut flower and bedding plant. Tr. pkt., 35c; 1/4 oz., 80c; 1 oz., \$2.40.

MATRICARIA. See Feverfew, page 21.

MYOSOTIS (Forget-me-not)—● **Blue Bird** (Oblongata). Standard blue for spring greenhouse flowering. Tr. pkt., 40c; 1/4 oz., 90c; 1 oz., \$3.25.

Palustris Semperflorens. Dwarf blue. 12 in. Flowers from early spring until autumn. Tr. pkt., 40c; 1/4 oz., 90c; 1 oz., \$3.25.

VICTORIA. A dwarf compact strain. 6 to 8 in.

Dark Blue	Rose	White	Dwarf Mixed
Above 4, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.65; 1 oz., \$4.90.			

ALPESTRIS. Blue Eyes. Early flowering bright blue with white eyes. Tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$4.75.

● **Royal Blue** (Indigo Blue). Deep rich blue. Tr. pkt., 40c; 1/4 oz., 85c; 1 oz., \$3.00.

NEPETA—**Mussini** (June-flowering Catnip). 12 in. Aromatic foliage and flowers. Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.25.

OENOTHERA—**Youngi** (Sundrop). Large yellow blooms. Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.00.

Missouriensis. 12 in. Large-flowered yellow. Tr. pkt., 30c; 1/4 oz., \$1.20.

PENTSTEMON—**Avalon Hybrids.** 3 ft. Spikes of fine large flowers in an extremely wide and unusual range of colors. The result of crossing 2 distinct species. Tr. pkt., 40c; 1/8 oz., 80c; 1/4 oz., \$1.50.

PHLOX—**Decussata Mixture.** 3 ft. Large brilliantly colored types. Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.50.

Beltsville Beauty. A greatly improved perennial Phlox. Large flowered, and a wide assortment of colors. Tr. pkt., 75c; 1/4 oz., \$1.70; 1 oz., \$5.00.

PHYSALIS—**Francheti** (Chinese Lantern Plant). Giant orange-scarlet pods. Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.50.

PHYSOSTEGIA—**Virginica** (False Dragonhead). 4 ft. Rosy lilac. Tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$5.00.

PLATYCODON—**GRANDIFLORUM** (Balloon Flower). 24 in. Blue. A clear, deep violet blue. White
 Above 2, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.60.

MARIESI

Dwarf Blue. 16 in.	Dwarf White. 16 in.
Above 2, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.60.	

POPPY—**ORIENTALE** (Oriental Poppy). **Beauty of Livermere.** Dark oxblood-red. Tr. pkt., 35c; 1/4 oz., \$1.25.

Brilliant. Fiery red. Tr. pkt., 35c; 1/8 oz., \$1.00; 1/4 oz., \$1.75.

Princess Victoria Louise. The standard light orange. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.75.

Salmon Shades. Tr. pkt., 40c; 1/8 oz., \$1.10; 1/4 oz., \$1.85.

Mixture. Tr. pkt., 40c; 1/4 oz., \$1.25; 1 oz., \$4.25.

PRIMULA—**VERIS.** ● **Colossea.** Unusual colors. Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

● **Giant Munstead Strain.** Shades of yellow. Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

● **Polyanthus Mixture.** (Unwin's strain). Tr. pkt., \$1.00; 1/8 oz., \$2.25; 1/4 oz., \$4.25; 1 oz., \$12.50.

● **Giant Monarch Strain.** A fine large-flowered mixture. Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

MISCELLANEOUS HARDY PRIMULAS.

Giant Crimson	Giant Yellow	Giant White
Above 3, each: tr. pkt., 80c; 1/16 oz., \$1.85; 1/8 oz., \$3.25.		

Blue Flowered. Tr. pkt., \$1.00; 1/32 oz., \$2.75; 1/16 oz., \$5.25.

Vulgaris (True Yellow English Primrose). 6 in. Tr. pkt., 60c; 1/4 oz., \$1.75; 1 oz., \$6.50.

Cashmeriana. Ball-shaped heads of rich purple flowers with yellow centers. Tr. pkt., \$1.00; 1/16 oz., \$3.75; 1/4 oz., \$12.50.

Japonica. Crimson, rose and pink flowers borne in whorls on 6- to 9-inch stems. Tr. pkt., 40c; 1/8 oz., \$1.00.

PYRETHRUM—ROSEUM (Painted Daisy).

Atrosanguineum. A popular dark crimson strain.

Rose. Single pink flowers.

Robinson's Dark Crimson. Giant flowered, dark red.

● **Robinson's Mixture.** Large single mixture.

● **Semi-Double Mixture.** An excellent strain.

Above 5, each: tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$4.75.

● **Double Mixture.** The finest double Pyrethrum. Tr. pkt., 60c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$8.25.

Parthenifolium Aureum (Golden Feather). Dwarf; yellow-green foliage. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.00.

RUDBECKIA—**Purpurea.** (Echinacea). 4 ft. Reddish purple. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.50.

SALVIA—**Patens.** 30 in. Navy blue. Tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$4.75.

SAPONARIA—**Ocymoides.** 12 in. Hardy rock plant. Rose-pink flowers. Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.25.

SCABIOSA—**CAUCASICA.** 30 in. **Goldingensis.** Large flowered, fine deep lavender. Tr. pkt. 40c; 1/4 oz., \$1.10; 1 oz., \$3.75.

Perfecta. Improved large flowered form of this lilac-lavender strain. Tr. pkt., 35c; 1/4 oz., 80c; 1 oz., \$2.60.

● **House Hybrids.** Large flowers ranging from white to deep blue. Tr. pkt., 40c; 1/4 oz., \$1.10; 1 oz., \$3.75.



Lutea Splendens

Blue Perfection

VIOLAS

Chantreyland

White Perfection

Jersey Gem

PERENNIALS—Continued

STATICE—*Caspia*. 30 in. Seedlings flower second season. Lilac. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.75.

DUMOSA. 18 in. Dense clumps of silvery gray flowers. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

● **Latifolia** (Sea Lavender). 30 in. Standard blue perennial Statice. Tr. pkt., 30c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.00.

Perezi. Flowers in large lavender heads first year from seed. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

STOKESIA—*Cyanea* (Stokes' Aster). 16 in. Large blue flowers. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00.

THALICTRUM—*Dipterocarpum* (Meadow Rue). 3 to 4 ft. Rosy purple flowers. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.

THERMOPSIS—*Caroliniana*. Long panicles of yellow pea-shaped flowers. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.

TRITOMA (Red Hot Poker). ● **Pfitzer's Red**. Brilliant red. **Mirabilis**. Yellow and orange shades. Above 2, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

TROLLIUS—Soak seed in hot water 30 minutes before sowing. **Ledebouri, Orange** (Globeflower). Late flowering. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.25.

Europaeus (Golden Ball). Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.10; $\frac{1}{4}$ oz., \$2.00.

Hybrids Mixed. Beautiful variations in both form and shades. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.70.

VERONICA—*Spicata, Dwarf Mixed* (Speedwell). Easily grown; brightly colored. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

VIOLA—*CORNUTA*. **Apricot**. Prefer Chantreyland. Tr. pkt., 55c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.10; 1 oz., \$6.50.

Arkwright Ruby. Maroon-scarlet with dark center. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.60; $\frac{1}{4}$ oz., \$2.90; 1 oz., \$9.00.

● **Blue Perfection**. Large flowered clear medium blue. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.20; $\frac{1}{4}$ oz., \$2.25; 1 oz., \$6.50.

● **Chantreyland**. Extra large flowered true apricot. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.20; 1 oz., \$6.50.

Firmament. Free blooming, clear sky-blue. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.15; $\frac{1}{8}$ oz., \$2.20.

Jersey Gem. Deep orchid. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.15; $\frac{1}{8}$ oz., \$2.25.

King Henry. Rich violet-blue with lavender center and small yellow eye. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.20; 1 oz., \$6.50.

● **Lutea Splendens**. Clear golden yellow. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.60; 1 oz., \$5.25.

Papilio. Blue and white combinations. Extra dwarf and free-flowering. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

Puck. Yellow and purple. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.25.

● **White Perfection**. Small pure white. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.25.

● **Large-Flowered Mixture**. Complete mixture of all large flowered varieties. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.25.

"JUMP-UPS"

Black Imp. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.60; 1 oz., \$5.50.

● **Blue Elf.** (Improved Johnny Jump-Up.) Three-colored blooms. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.35; $\frac{1}{4}$ oz., \$2.50.

● **Helen Mount**. A combination of violet, lavender and canary-yellow. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.35; $\frac{1}{4}$ oz., \$2.50.

ODORATA. The popular fragrant "English Violet." **Semper-florens**. Deep blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.40.

YUCCA—**Hardy Varieties Mixed**. Striking plants of exotic appearance. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

**PRIMULA VERIS
COLOSSEA**

Makes a wonderful hardy bedding show, and is an excellent pot plant when forced under glass.

Gro. J. Ball
INC.
WEST CHICAGO
ILLINOIS

Holland Bulb Collection FOR COUNTER SALES

Early September Delivery

1125 BULBS FOR \$54.00

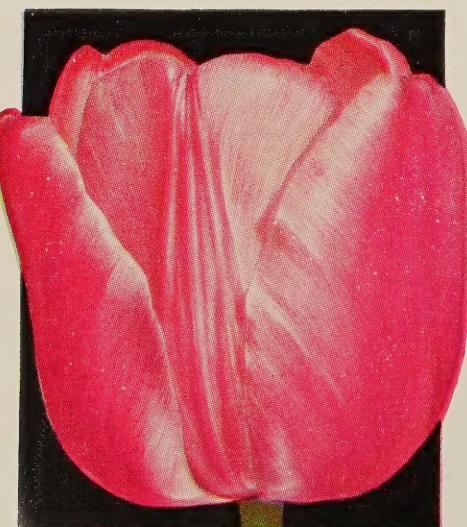
Order now and be sure of getting your bulbs early next September—when your customers want them.

Colored posters to help your sales come with each collection.

Each unit contains:

- 25 Hyacinths, Blue.
- 25 Hyacinths, Pink.
- 25 Hyacinths, White.
- 125 Tulips, Wm. Pitt. Brilliant carmine.
- 125 Tulips, Philip Snowden. Deep rose.
- 125 Tulips, All Bright. Deep red.
- 125 Tulips, Wm. Copeland. Lavender.
- 125 Tulips, Carrara. Pure white.
- 125 Tulips, Golden Harvest. Lemon-yellow.
- 125 Tulips, Rhineland. Crimson, edged yellow.
- 25 Tulips, Red Emperor. Fiery scarlet.
- 25 Tulips, Blue Parrot. Dark lavender-blue.
- 25 Tulips, Fantasy (Parrot). Deep salmon, blotched green.
- 100 Daffodils, King Alfred. Golden yellow.

C.O.D. orders must be accompanied by 50% cash in advance. Prices are F.O.B. Chicago or New York.



Ball-Grown Small Plants

All the 2 1/4-in. stock listed below are shipped in "Ball-Pak" in 2-in. bands or out of 2 1/4-in. pots. F.O.B. our grower nearest you.

FIBROUS ROOTED BEGONIAS

2 1/4-In. Available September to June

Adeline. Free flowering bright pink; dwarf.

Ball Deep Rose. Deep rosy red during winter and spring, changing to luminous pink during warm weather. Dwarf.

Luminosa Compacta. Dwarf. Popular scarlet-red.

Ball Red. Dwarf. Medium flowers of bright scarlet.

Indian Maid. Intermediate. Bronze-leaved scarlet.

Carmen. Intermediate. Bright rose-pink flowers, bronze leaves.

Snowbank. Dwarf. Large, glistening white flowers.

Assorted.

\$12.00 per 100; \$100.00 per 1000. 250 at 1000 rate.

Minimum order 100; 25 of a variety.

MELIOR BEGONIAS

2 1/4-In.

June and July Delivery

Melior Improved **Lady Mac** **Marjorie Gibbs**

\$40.00 per 100; \$350.00 per 1000. 45¢ each in lots of 50 or less. 250 or more at 1000 rate. Minimum order 25 plants.

PRIMULA MALACOIDES

2 1/4-In.

Late September thru January

Glory of Riverside Imp. An excellent variety with beautiful salmon-rose flowers.

White Giant. Pure white; large flowers and heavy stems.

Brilliancy Imp. Flowers open lavender—turn to dark, velvety red on compact plants of medium height.

\$12.00 per 100, \$100.00 per 1000. Minimum order 100 plants.

CINERARIAS

2 1/4-In.

September thru January

Assorted, Siter's and Cremer's Strains

\$10.00 per 100, \$90.00 per 1000.

Minimum order 100 plants.

POINSETTIAS

2 1/4-In.

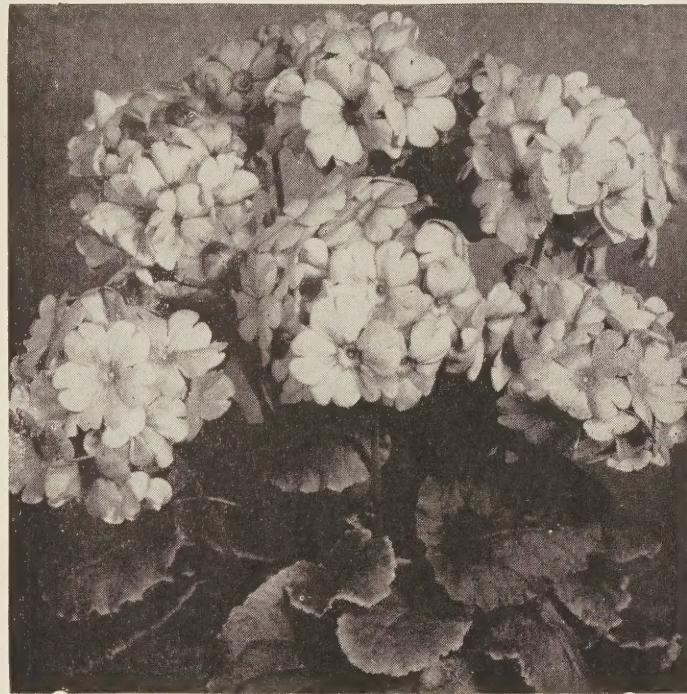
August-September-October Delivery

Per 100 Per 1000

Barbara Ecke Sup.	.....	\$25.00
Indianapolis Red	.....	21.00 200.00
Ecke's New White	.....	21.00 200.00
Imp. Albert Ecke	.....	19.50 185.00
Albert Ecke	.....	19.50 185.00
Ruth Ecke	.....	17.00 160.00
Oak Leaf	.....	17.00 160.00
Pink	.....	17.00 160.00

F.O.B. Shipping Point. Minimum order 100 plants.

We also offer Roses, Hydrangeas, Delphiniums, Asters, Carnation and Chrysanthemum Cuttings. Write for prices.



PRIMULA OBCONICA

2 1/4-inch plants ready from June thru December. Order now for delivery when you need them.

PRIMULA OBCONICA

2 1/4-In.

June-December Delivery

Fasbenders Red. An outstandingly fine, extra large flowered deep crimson-red.

Muellers Berlin Rose (Muellers Rosea). Soft medium rose.

Sky-Blue (Coerulea). Clear mid-blue.

White. Rather tall growth.

\$12.00 per 100; \$100.00 per 1000. Minimum order 100 plants.

SNAPDRAGONS

2 1/4-In.

Delivery August Through March

PINK and ROSE

Rosanna (Ball Hyb. No. 9). Deep rose.

Christmas Cheer. HYBRID. Rose-pink. (Available till Dec. 1).

Pensive. HYBRID. Dark pink.

Whirlaway. HYBRID. Light pink with yellow lip.

Crusader. HYBRID. Silvery rose-pink.

Christina. HYBRID. Medium light pink.

Pink Ice (Ball Hyb. No. 31). Medium rose with nearly white lips.

Hercules (Ball Hyb. No. 21). Medium pink.

RED and BRONZE

Navajo (Ball Hyb. No. 8). Our best red.

Gallant Fox. HYBRID. Deep orange-bronze.

YELLOW

Golden Spike (Ball Hyb. No. 1). Golden yellow for mid-winter.

War Admiral. HYBRID. A good yellow.

WHITE

Snowman (Ball Hyb. No. 5). Pure white.

Margaret. Clean ivory-white.

LAVENDER

Lavender Lady (Ball Hyb. No. 71). A deep, rosy lavender.

Prices all Snapdragon varieties: \$8.00 per 100; \$65.00 per 1000. 250 at 1000 rate. Minimum order 100; 25 of a variety.



Cyclamen

The demand for well-grown Cyclamen has steadily increased for the past four years. The three- and four-inch offered here are produced by the best growers in the country. June and July delivery of three-inch—August and September delivery of four-inch—should give you nice 5- and 6-inch in flower for Christmas sales.

See October 1952 GROWER TALKS for complete cultural story.

3-in. — June-July

\$36.00 per 100; \$350.00 per 1000.
Minimum order 50. Packing at cost.

4-in. — August

\$70.00 per 100. Minimum order 25.
Packing at cost.

Dormant Azaleas

FOR FALL AND SPRING FORCING

The Azaleas on this page are the best varieties for you to force. They are all well budded and ready to force when you receive them.

Azaleas are gaining in popularity thruout the country as the leading pot plant. If you haven't been grow-

ing Azaleas, you should order some of these fine plants today. **Minimum total order 25 plants, 5 of any one variety or size. Cost of packing to be added.**

INDICAS - GRAFTED

Albert & Elizabeth. Double white with pink border.
Chimes. Brilliant red. Early.
Eric Schame. Early salmon-rose with blush.
Ernest Thiers. Semi-double, bold crimson.
Ideal. Christmas flowering variegated.
Jean Haerens. Double, large dark rose.
Madame Petrick. Christmas flowering rose.
Memoria Sanders. Dark red.
Miss Cottage Gardens. Deep red. Early.
Niobe. Late, double white.
Paul Schame. Early double salmon-red.
Perle de Swynarde. Best double white. Early.
Simon Mardner. Early, beautiful double rose.
Triomphe. Double red with purple sheen.
Vervaeeneana. Double, large rosy salmon.
Vervaeeneana Alba. Large double, pure white.
Violacea. Deep purplish violet.

	Each	Each
6 to 8 in.	\$1.65	
8 to 10 in.	2.00	
10 to 12 in.	2.50	
12 to 14 in.	3.00	

KURUMES

Coral Bells. Dainty coral-pink; semi-double.
Hexe. Deep crimson; semi-double dwarf.
Hinodegiri. Carmine-red. Hardy.
Marjorie Ann. Rose-pink.
Rival. Double salmon-rose.
Rose Pericat. Hose-in-hose type. Light pink.
Salmon Beauty. Salmon-pink. Hose-in-hose type.
Sensation. Deep pink, hose-in-hose pericat.
Snow. Pure white hose-in-hose type.
Sweetheart Supreme. Fine pink. Resembles Sweetheart Rose when opening.

	Each	Each
4 to 6 in.		\$0.75
6 to 8 in.		1.00
8 to 10 in.		1.20
10 to 12 in.		1.50

Any Price Changes Will Be Adjusted at Delivery Time.

GrogBall
I N C.
WEST CHICAGO,
ILLINOIS, U. S. A.